

# Catalogue of the type material of Scarabaeoidea (Coleoptera) deposited in the Research Institute of Evolutionary Biology, Tokyo, Japan

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## Abstract

A detailed catalogue of the type material of the Scarabaeoidea housed in the Research Institute of Evolutionary Biology, Tokyo, Japan is listed. The catalogue includes the data of the type material of four families and 111 species.

## Keywords

Allotype, Geotrupidae, holotype, Lucanidae, neotype, paratype, Scarabaeidae, Trogidae

## Introduction

In this report we present a catalogue of the type material of Scarabaeoidea housed in the Research Institute of Evolutionary Biology, Tokyo, Japan (RIEB). The beginning of the RIEB collection dates back to 1950, when the first natural objects were deposited at the Research Institute of Thremmatology of the Tokyo University of Agriculture (RIT) established that year. RIT was transformed into an incorporated foundation in 1974 and renamed Research Institute of Evolutionary Biology (Yamamoto 2000). The Lepidoptera collection in the RIEB was listed in detail by Aoki et al. (2005, 2008) and Yamaguchi et al. (2006, 2008, 2009, 2011, 2017), but the Coleoptera collection has never been catalogued. This creates

a problem because well-organized museum collections and published type specimen catalogues are very important to facilitate taxonomic and systematic investigations of animals.

The majority of the types of Scarabaeidae deposited in the RIEB originate from the collection of Mr Yoshikazu Miyake (1926–2003), a well-known Japanese amateur specialist on Scarabaeidae, who was also the author of those taxa. A part of types of Miyake's species is also housed in the National Museum of Nature and Science, Tokyo (NMNS) and the Nagaoka Municipal Science Museum, Niigata (NMSM). Unfortunately, some of his types are missing.

In addition, other researchers that contributed to the Scarabaeoidea type collection in RIEB are: Dirk Ahrens, Aleš Bezděk, Toshiyuki Ichikawa, Takeshi Itoh (Takeshi Matsumoto), Kimio Masumoto, Sizumu Nomura, Teruo Ochi, and Kaoru Wada.

## Materials and methods

The scientific names of higher taxa in this catalogue follow Scholtz and Grebennikov (2016). The structure of each entry is as follows:

- original combination of the taxon name;
- original combination and spelling of the taxon name, followed by the author, year of description, and pagination;
- type material, number of specimens (including sex, if known), and exact label data. A double slash ‘//’ indicates separate labels and single slash ‘/’ indicates lines within each label. The words in Japanese or Chinese were transcribed into Roman alphabet. Paratypes with discrepancies between collection data on the label and data quoted in the original description are indicated by ‘[[ ]]’;
- remarks on types condition (given only for holotypes and neotypes);
- current taxonomic status;
- remarks, if any.

The majority of holotypes and neotypes were photographed with a Nikon D7200 camera using a Nikon AF-S DX Micro NIKKOR 40 mm f/2.8 G lens, and some types were photographed with a KEYENCE VHX-1000 Digital Microscope.

## Catalogue

### Family Geotrupidae

### Subfamily Geotrupinae

### Genus *Sinogeotrupes*

### *Sinogeotrupes taiwanus* Miyake & Yamaya

*Sinogeotrupes taiwanus* Miyake & Yamaya, 1995: 32–34.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 3 exs.: 1 ex. 'Wusha / -VI-1941 / R. Boloudo // Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'. 1 ex. 'Wu sha / Formosa / 21. Viii. 1941 / Col. Bumua Tin // *Geotrupes* / subshiatelluo FAIRMAIR / DET. Y. MIYAKE // Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'. 1 ex. '台湾= taiwan 台中= taichû / 関刀山= guandaoshan / 1993. V. 31 // Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'.

**Current status.** *Phelotrupes* (*Sinogeotrupes*) *taiwanus* (Miyake and Yamaya, 1995), see Nikolajev et al. (2016).

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 3 exs. 'Tattaka / Formosa / 10. Vi. 1965 / T. Shirozu // Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'. 1 ex. '(FORMOSA) / Mt Rata / Vi-Vii-1972 / L. F. Hang // Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'. 1 ex. '(FORMOSA) / Mt Rata / -Vii-1972 / L. F. Hang // Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'. 2 exs. '[ Taiwan ] / 台中= taichû 関刀山= guandaoshan / 3-VI-1993 // Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'. 1 ♂ '[ Taiwan ] / 台中= taichû 関刀山= guandaoshan / 3-VI-1993 // Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'. 3 exs. 'Paratype / *Sinogeotrupes taiwanus* / Y. MIYAKE et YAMAYA, 1995'.

## Family Lucanidae

### Subfamily Lucaninae

#### Genus *Aegus*

#### *Aegus laevicollis nakanei* Ichikawa & Imanishi

*Aegus laevicollis nakanei* Ichikawa & Imanishi, 1976: 9.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Kusui):

**Paratype.** 1 ex.: [[1 ♀ 'Mt. Yonahadake, / Kunigami-son, / Is. Okinawa-Hontō, / 28. VI. 1972 (the date given in the original description is 16-17. VI. 1970), / HEIKICHI IRIE leg., // KUSUI // Paratype']].

**Current status.** *Aegus nakanei nakanei* Ichikawa and Imanishi, 1976, see Huang and Chen (2017).

## Family Scarabaeidae

### Subfamily Aphodiinae

#### Genus *Aphodius*

#### *Aphodius* (*Agoliinus*) *tanakai* Masumoto

*Aphodius* (*Agoliinus*) *tanakai* Masumoto, 1981: 73-74.

**Note.** The following paratype is deposited in RIEB (ex coll. K. Masumoto):

**Paratype.** 1 ex.: ‘Nikko / Date: 23 V 1981 / K. MASUMOTO leg. // Paratype / *Aphodius* (Agr) / tanakai MASUMOTO’.

**Current status.** *Agoliinus tanakai* (Masumoto, 1981), see Dellacasa et al. (2016).

### *Aphodius* (*Phaeaphodius*) *himalorectus* Ahrens & Stebnicka

*Aphodius* (*Phaeaphodius*) *himalorectus* Ahrens & Stebnicka, 1997: 12–13.

**Note.** The following paratypes are deposited in RIEB (ex coll. D. Ahrens):

**Paratypes.** 2 exs.: ‘Phalante 20. 3. / unt. Nebelwaldstufe / 2100–2300 m // PARATYPE / *Aphodius* (*Phaeaphodius*) *himalorectus* sp. n. / det. D. AHRENS 1994’.

**Current status.** *Phaeaphodius himalorectus* (Ahrens and Stebnicka, 1997), see Dellacasa et al. (2016).

### *Aphodius* (*Sinodiapterna*) *zeni* Ochi

*Aphodius* (*Sinodiapterna*) *zeni* Ochi, 1991: 53–55.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘SUNGKAN / C. TAIWAN / 29–V. 1987 / K. LAH // PARATYPE / *Aphodius* (*Sinodiapterna*) / zeni / OCHI 1991’.

**Current status.** *Sinodiapterna zeni* (Ochi, 1991), see Dellacasa et al. (2016).

## Genus *Rhyparus*

### *Rhyparus kitanoi* Miyake

Figure 1A

*Rhyparus kitanoi* Miyake, 1982: 65–67.

**Note.** The holotype and following specimen are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘C, Sata [KYUSHU] Japan / 25, VI 1971 / T. Kitano leg. // PARATYPE // Holotype: / *Rhyparus* / kitanoi / Y. MIYAKE, 1992’. (Fig. 1A)

**Type condition.** The right and left protarsus and the right antenna of the holotype are missing.

**Current status.** *Rhyparus kitanoi kitanoi* Miyake, 1982, see Ochi (2001).

**Remark.** In addition to the holotype mentioned above, the following specimen labeled as paratype is not designated in the original description: 1 ex.: ‘Sesonoura / Is. Shimokoshiki / Kagoshima-pref. / 18. VI. 1982 / S. Imasaka leg. // Paratype: *Rhyparus* / kitanoi / Y. MIYAKE, 1992’.

**Subfamily Scarabaeinae****Genus *Caccobius******Caccobius bawangensis* Ochi, Kon & Kikuta**

*Caccobius bawangensis* Ochi, Kon & Kikuta, 1997: 262–264.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘Mt. Bawang / Sarawak S. / VIII. 1991 / M. Kon Coll. // PARATYPE / *Caccobius* / *bawangensis* OCHI, KON and KIKUTA’.

**Current status.** Valid species.

**Genus *Copris******Copris (Microcopris) mindorensis* Ochi**

*Copris (Microcopris) mindorensis* Ochi, 1992: 13.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘MT. HALKON / IS. MINDRO / 28–XII. 1988 / D. MOHAGAN // PARATYPE / *Copris* / (*Microcopris*) / *mindorensis* / OCHI, 1992.

**Current status.** Valid species.

**Genus *Onthophagus******Onthophagus setchan* Masumoto**

*Onthophagus setchan* Masumoto, 1984: 80–81.

**Note.** The following paratype is deposited in RIEB (ex coll. K. Masumoto):

**Paratype.** 1 ex.: ‘FENGCHIFU / FORMOSA / 7–VII. 74. / T. OCHI // PARATYPE / *Onthophagus* / *setchan* / MASUMOTO (1984)’.

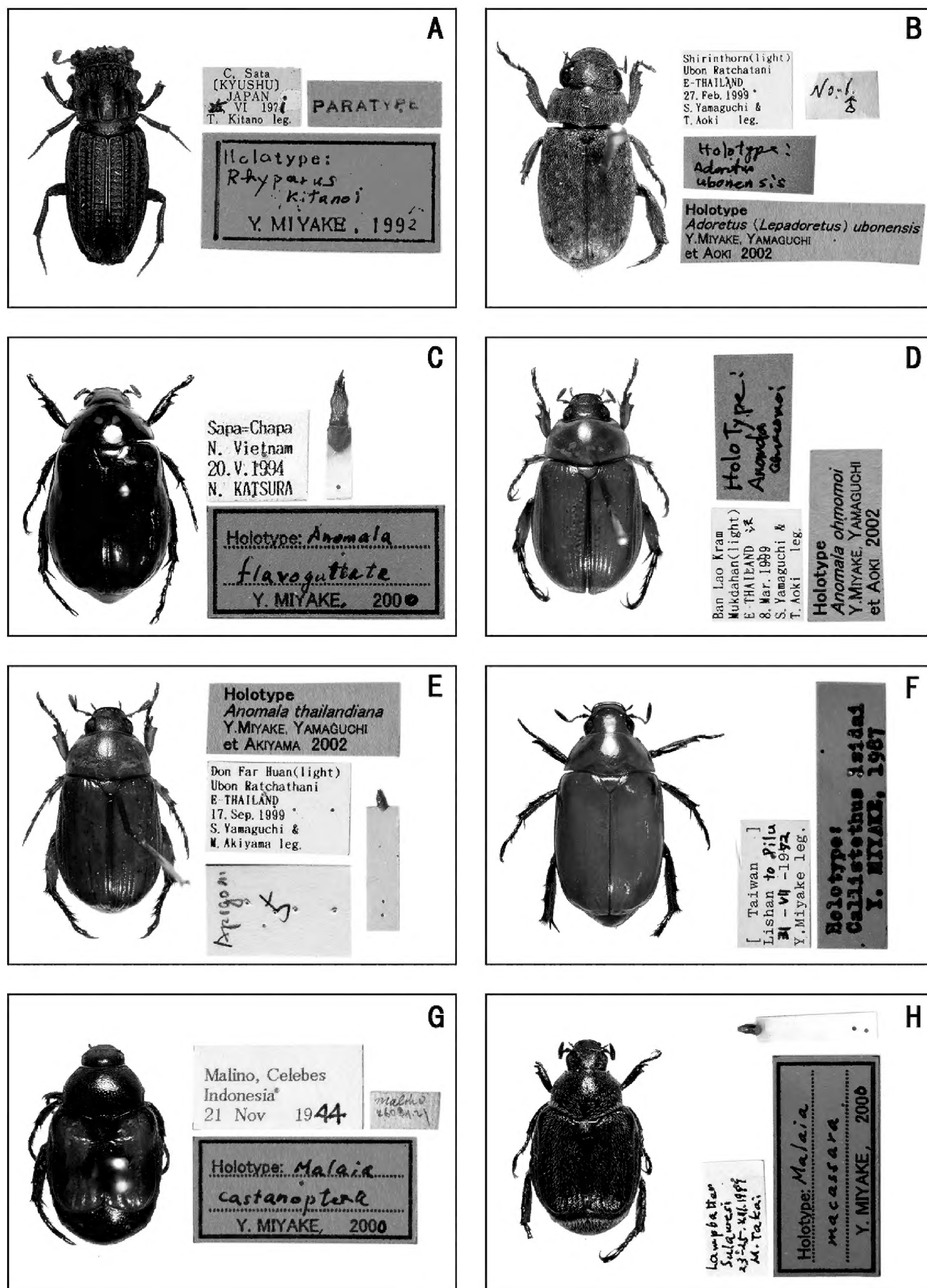
**Current status.** Valid species.

***Onthophagus (Parascatonomus) acuticollis sakishimanus* Nomura**

*Onthophagus (Parascatonomus) acuticollis sakishimanus* Nomura, 1976a: 29.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 6 exs.: 3 ♂ ‘Kanpira / Iriomote Is. / Yaeyama Iss. / 12. VII. 1975 / R. YANO leg. // ♂ // *Onthophagus* (P.) / *acuticollis* / *sakishimanus* / NOMURA (1976)’. 3 ♀ ‘Kanpira / Iriomote Is. / Yaeyama Iss. / 12. VII. 1975 / R. YANO leg. // ♀ // *Onthophagus* (P.) / *acuticollis* / *sakishimanus* / NOMURA (1976)’.



**Figure 1.** Habitus of holotype specimens. **A** *Rhyparus kitanoi* (Miyake) **B** *Adoretus (Lepadoretus) ubonensis* (Miyake, Yamaguchi et Aoki) **C** *Anomala flavoguttata* Miyake **D** *Anomala ohmomi* Miyake, Yamaguchi et Aoki **E** *Anomala thailandiana* Miyake, Yamaguchi et Akiyama **F** *Callistethus isidai* Miyake **G** *Malaia castanoptera* Miyake **H** *Malaia macassara* Miyake.



**Current status.** *Parascatonomus* (*Necramator*) *acuticollis sakishimanus* (Nomura, 1976), see Ochi and Kon (2017).

***Onthophagus* (*Parascatonomus*) *murasakianus* Nomura**

*Onthophagus* (*Parascatonomus*) *murasakianus* Nomura, 1976a: 30.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: ‘Kanpira, / Iriomote Is. / Yaeyama Iss. / 12. VII 1975 / R. YANO leg. // PARATYPE / *Onthophagus* (P.) / *murasakianus* / NOMURA (1976)’.

**Current status.** *Parascatonomus* (*Necramator*) *murasakianus* (Nomura, 1976), see Ochi and Kon (2017).

***Onthophagus* (*Parascatonomus*) *takedai* Ochi & Araya**

*Onthophagus* (*Parascatonomus*) *takedai* Ochi & Araya, 1992: 99–100.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘QUESON. N. P / IS. LUZON / 10–VIII. 1981 / K. SUGINO // PARATYPE / *Onthophagus* / (*Parascatonomus*) / *takedai* / OCHI et ARAYA, 1992’.

**Current status.** *Parascatonomus* (*Granulidorsum*) *takedai* (Ochi et Araya, 1992), see Ochi and Kon (2017).

***Onthophagus* (*Proagoderus*) *watanabei* Ochi & Kon**

*Onthophagus* (*Proagoderus*) *watanabei* Ochi & Kon, 2002: 306–311.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘SEPIROK / N. BORNEO / 4–VII. 1985 / M. KON // PARATYPE / *Onthophagus* / (*Proagoderus*) / *watanabei* / OCHI and KON. 2002’.

**Current status.** *Proagoderus watanabei* (Ochi et Kon, 2002), see Philips (2016).

***Onthophagus* (*Strandius*) *hiurai* Ochi**

*Onthophagus* (*Strandius*) *hiurai* Ochi, 1984: 63–65.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘PILU / Taiwan / 21, VIII, 1979 / K. Sugino leg. // PARATYPE / *Onthophagus* (St) / *hiurai* / OCHI (1984)’.

**Current status.** *Onthophagus (Phanaeomorphus) potanini hiurai* Ochi, 1984, see Ziani and Bezděk (2016).

### Subfamily Rutelinae

#### Genus *Adoretus*

#### *Adoretus (Lepadoretus) ubonensis* Miyake, Yamaguchi & Aoki

Figure 1B

*Adoretus (Lepadoretus) ubonensis* Miyake, Yamaguchi, Aoki & Akiyama, 2002: 62–63.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Shirinthorn (light) / Ubon Ratchatani / E-THAILAND / 27. Feb. 1999 / S. Yamaguchi and / T. Aoki leg. // No. 1 / ♂ // Holotype: / *Adoretus* / *ubonensis* // Holotype / *Adoretus (Lepadoretus) ubonensis* / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’. (Fig. 1B)

**Type condition.** The left mesotarsus and the left metaleg of the holotype are missing.

**Current status.** Junior subjective synonym of *Adoretus compressus* (Weber, 1801), see Kobayashi (2018).

#### Genus *Anomala*

#### *Anomala flavoguttata* Miyake

Figure 1C

*Anomala flavoguttata* Miyake, 2000: 108–109.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Sapa=Chapa / N. Vietnam / 20. V. 1994 / N. KATSURA // Holotype: *Anomala* / *flavoguttata* / Y. MIYAKE, 2000’. (Fig. 1C)

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.

#### *Anomala ohmomoi* Miyake, Yamaguchi & Aoki

Figure 1D

*Anomala ohmomoi* Miyake, Yamaguchi, Aoki & Akiyama, 2002: 58–60.

**Note.** The holotype and the following paratypes are deposited in RIEB (ex coll. Y. Miyake):



**Holotype** (♂). ‘Ban Lao Kram / Mukdahan (light) / E–THAILAND 沢= sawa / 8. Mar. 1999 / S. Yamaguchi and / T. Aoki leg. // Holo Type: / Anomala / ohmomoi // Holotype / *Anomala ohmomoi* / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’. (Fig. 1D)

**Paratypes.** 4 exs.: ‘Ban Lao Kram / Mukdahan (light) / E–THAILAND 沢= sawa / 8. Mar. 1999 / S. Yamaguchi and / T. Aoki leg. // Paratype / *Anomala ohmomoi* / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’.

**Current status.** Valid species.

### *Anomala thailandiana* Miyake, Yamaguchi & Akiyama

Figure 1E

*Anomala thailandiana* Miyake, Yamaguchi, Aoki & Akiyama, 2002: 60–61.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Don Far Huan (light) / Ubon Ratchathani / E–THAILAND / 17. Sep. 1999 / S. Yamaguchi and / M. Akiyama leg. [white label, front] // Apigoni / 5 [white label, back] // Holotype / *Anomala thailandiana* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. (Fig. 1E)

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.

### Genus *Callistethus*

#### *Callistethus isidai* Miyake

Figure 1F

*Callistethus isidai* Miyake, 1987: 5–6.

**Note.** The holotype and the following paratype are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘[ Taiwan ] / Lishan to Pilu / 31–VII–1972 / Y. Miyake leg. // Holotype: / *Callistethus isidai* / Y. MYAKE, 1987’. (Fig. 1F)

**Paratype.** 1 ex.: ‘[ Taiwan ] / Lishan to Pilu / 31–VII–1972 / Y. Miyake leg. // Paratype / *Callistethus isidia* / Y. MIYAKE, 1987’.

**Type condition.** The right and left metatarsi of the holotype are missing.

**Current status.** *Callistethus plagiicollis isidai* Miyake, 1987, see Zorn and Bezděk (2016).

**Remark.** The habitus photograph in the original description does not agree with the holotype. This is also the case with some other species described by Miyake. Apparently, he did not intend to provide the photographs of the holotypes. Also, as noted below, we were unable to trace some specimens illustrated in the original descriptions.

## Genus *Kibakoganea*

### *Kibakoganea ohtanii* Miyake & Muramoto

*Kibakoganea ohtanii* Miyake & Muramoto, 1992: 22–24.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 2 exs.: [[1 ♂, 1 ♀ ‘Tam Dao / N. VIETNAM / 28–30, IV, 1991 (the date given in the original description is 28–30. III. 1991) / M. Fujioka and / R. Muramoto – leg. // PARATYPE / Kibakoganea / ohtanii / Y. MIYAKE et / MURAMOTO, 1992.’]].

**Current status.** Junior subjective synonym of *Kibakoganea sexmaculata* (Kraatz, 1900), see Miyake (2003).

## Genus *Malaia*

### *Malaia castanoptera* Miyake

Figure 1G

*Malaia castanoptera* Miyake, 2000: 112.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Malino, Celebes / Indonesia / 21 Nov 1944 // malino / 2603.11.21 // Holotype: Malaia / castanoptera / Y. MIYAKE, 2000’. (Fig. 1G)

**Paratypes.** 7 exs.: 1 ♂, 3 ♀ ‘Malino, Celebes / Indonesia / 21 Nov 1944 // malino / 2603.11.21 // Paratype: Malaia / castanoptera / Y. MIYAKE, 2000’. 2 exs. ‘Malino, Celebes / Indonesia / 21 Nov 1944 // malino / 2603.11.21 // Paratype: Malaia / castanoptera / Y. MIYAKE, 2000’. 1 ex. ‘malino / 2603.11.21 // Paratype: Malaia / castanoptera / Y. MIYAKE, 2000’.

**Current status.** Valid species.

**Remark.** The habitus photo in the original description belongs to the female paratype with the label ‘Malino, Celebes / Indonesia / 21 Nov 1944 // malino / 2603.11.21’.

### *Malaia cyanea* Miyake

*Malaia cyanea* Miyake, 1996: 38–39.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 2 exs.: 1 ♂ ‘32 km from / Palopo / Surawesi / 10. VI. 1982 // Paratype: / Malaia cyanea / Y. MIYAKE, 1996’. 1 ♀ ‘Punchak–Lombanan / Mamasa, / S. SULAWESI / 1991. AUG. 10. / N. Kashiwai–leg. // Paratype: / Malaia cyanea / Y. MIYAKE, 1996’.

**Current status.** Valid species.

***Malaia macassara* Miyake**

Figure 1H

*Malaia macassara* Miyake, 2000: 109–110.**Note.** The holotype and the following paratype are deposited in RIEB (ex coll. Y. Miyake):**Holotype** (♂). ‘Lampbatter / Sulawesi / 23–25. VIII. 1999 / M. Takai // Holotype: Malaia / macassara / Y. MIYAKE, 2000’. (Fig. 1H)**Paratype.** 1 ex.: 1 ♂ ‘Lampbatter / Sulawesi / 23–25. XII. 1999 / M. Takai leg. // Paratype: Malaia / macassara / Y. MIYAKE, 2000’.**Type condition.** The left protarsus and metatarsus of the holotype are missing.**Current status.** Valid species.***Malaia rufofemorata* Miyake***Malaia rufofemorata* Miyake, 1996: 40–41.**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):**Paratypes.** 4 exs.: 1 ♂, 1 ♀ ‘Puncak, Palopo / VI–VII, 1989 / Central SULAWESI // Paratype: Malaia / rufofemorata / Y. MIYAKE, 1996’. 2 ♂ ‘Palu Palolo / VIII. 1990 / Central SULAWESI // Paratype: Malaia / rufofemorata / Y. MIYAKE, 1996’.**Current status.** Valid species.**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 2 ♂, 1 ♀ ‘Palolo, Palu / 01–10/XI. 1990 / native coll. / CELEBES // Paratype: Malaia / rufofemorata / Y. MIYAKE, 1996’.***Malaia sulawesi* Miyake***Malaia sulawesi* Miyake, 1996: 41–42.**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):**Paratypes.** 58 exs.: 1 ♂ ‘Mt. Pedamaran / Tana Toraja / 1985. III–17 / South SULAWESI / Soma, K. leg. // Paratype: / Malaia / sulawesi / Y. MIYAKE, 1996’. 1 ex. ‘Puncak Palopo / 1989. III. 31 / Centr. CELEBES // Paratype: / Malaia / sulawesi / Y. MIYAKE, 1996’. 3 exs. ‘Palu Pulu / C. Sulawesi / II. 1989 // Paratype: / Malaia / sulawesi / Y. MIYAKE, 1996’. [[44 exs. ‘Mt. Pedamaran / S. Sulawesi (real data is C. Sulawesi) / 20. X. 1983 (real date is 20. V. 1983) / K. Soma leg. // Paratype: / Malaia / sulawesi / Y. MIYAKE, 1996’]]. [[9 exs. ‘Mt. Pedamaran / Tana Toraja / 1983. X–20 (real date is 1983. V–20) / South SULAWESI (real data is Central SULAWESI) / Soma, K. leg. // Paratype: / Malaia / sulawesi / Y. MIYAKE, 1996’]].**Current status.** Valid species.

***Malaia taoi* Miyake**

*Malaia taoi* Miyake, 1996: 39–40.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 4 exs.: 1 ♂ ‘37 km from / Palopo C.- / Sulawesi / 9. IV. 1982 // Paratype: / Malaia / taoi / Y. MIYAKE, 1996’. 1 ♀ ‘32 km from / Palopo / Sulawesi / 10. VI. 1982 // 37 km from / Palopo C.- / Sulawesi / 10. VI. 1982 // Paratype: / Malaia / taoi / Y. MIYAKE, 1996’. 1 ♂ ‘37 km from / Palopo C.- / Sulawesi / 11. IV. 1982 // Paratype: / Malaia / taoi / Y. MIYAKE, 1996’. 1 ♀ ‘32 km from / Palopo / Sulawesi / 13. VI. 1982 // 37 km from / Palopo C.- / Sulawesi / 13. VI. 1982 // Paratype: / Malaia / taoi / Y. MIYAKE, 1996’.

**Current status.** Valid species.

***Malaia tondanoensis* Miyake**

*Malaia tondanoensis* Miyake, 1996: 42–43.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 4exs.: ‘Tondano / N. Sulawesi / 10–IV–1989 / Y. Miyake leg. // Paratype: / Malaia / tondanoensis / Y. MIYAKE, 1996’.

[[1 ex. ‘Tangkoko N. / N. Sulawesi / 10–III–1989 (the date given in the original description is 10–IV–1989) / Y. Miyake leg. // Paratype: / Malaia / tondanoensis / Y. MIYAKE, 1996’]]. [[2 exs. ‘Tondano / N. Sulawesi / 9–IV–1989 (the date given in the original description is 10–IV–1989) / Y. Miyake leg. // Paratype: / Malaia / tondanoensis / Y. MIYAKE, 1996’]].

**Current status.** Valid species.

***Malaia toraja* Miyake**

Figure 2A

*Malaia toraja* Miyake, 2000: 110–111.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Mt. Pedamaran / Tana Traja / 20–X. 1983 / K. SOHMA lgd. / South SULAWESI // Holotype: Malaia / toraja / Y. MIYAKE, 2000’. (Fig. 2A)

**Paratypes.** 27 exs.: 1 ♂ ‘Mt. Pedamaran / Tana Traja / 20–X. 1983 / K. SOHMA lgd. // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 9 exs. ‘Mt. Pedamaran / Tana Traja / 20–X. 1983 / K. SOHMA lgd. // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 2 exs. ‘Mt. Pedamaran / S. Sulawesi / 20. X. 1983 / K. Soma leg. // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 8 exs. ‘Puncak, Palopo / VI–VII, 1989 / Central SULAWESI // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 2 exs. ‘Central

SULAWESI / Puncak, Palopo / VI–VII, 1989 // Paratype: Malaia / toraja / Y. MIYAKE, 2000'. 1 ♂ 'Puncak Palopo / 1989. / Centr. CELEBES // SI [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000'. 4 exs. 'Puncak Palopo / 1989. / Centr. CELEBES // SI [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000'.

**Current status.** Valid species.

**Remark.** The habitus photo in the original description belongs to the female paratype with the label 'Mt. Pedamaran / Tana Toraja / S. Sulawesi / 7, VIII, 1988 / K. Soma leg.'.

In addition to the paratypes listed above, the following specimens labeled as the paratypes are not designated in the original description: 1 ♀ 'Mt. Pedamaran / Tana Toraja / S. Sulawesi / 7, VIII, 1988 / K. Soma leg. // SI [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000'. 1 ex. '(Pulu Pulu) / C. Sulawesi / INDONESIA / Dec. 1988 // [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000'. 2 exs. 'Puncak, Palopo / Centr. CELEBES / 1989. I / INDONESIA // [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000'. 1 ex. 'Puncak Palopo / 1989. III. 31 / Centr. CELEBES // Paratype: Malaia / toraja / Y. MIYAKE, 2000'. 3 exs. 'Palu, Palolo / VII 1989 / Central SULAWESI // Paratype: Malaia / toraja / Y. MIYAKE, 2000'.

## Genus *Mimela*

### *Mimela kitanoi* Miyake

Figure 2B

*Mimela kitanoi* Miyake, 1987: 7–8.

**Note.** The holotype is deposited in RIEB (ex coll. K. Wada):

**Holotype** (♀). 'Larashan / Hsinchu Hs. / VI. 1975, / Fang leg // Holotype: / *Mimela kitanoi* / Y. MIYAKE, 1987 // Kaoru WADA / Collection 2001'. (Fig. 2B)

**Current status.** Junior subjective synonym of *Mimela flavocincta* Lin, 1966, see Zorn and Bezděk (2016).

### *Mimela marginipennis* Miyake

Figure 2C

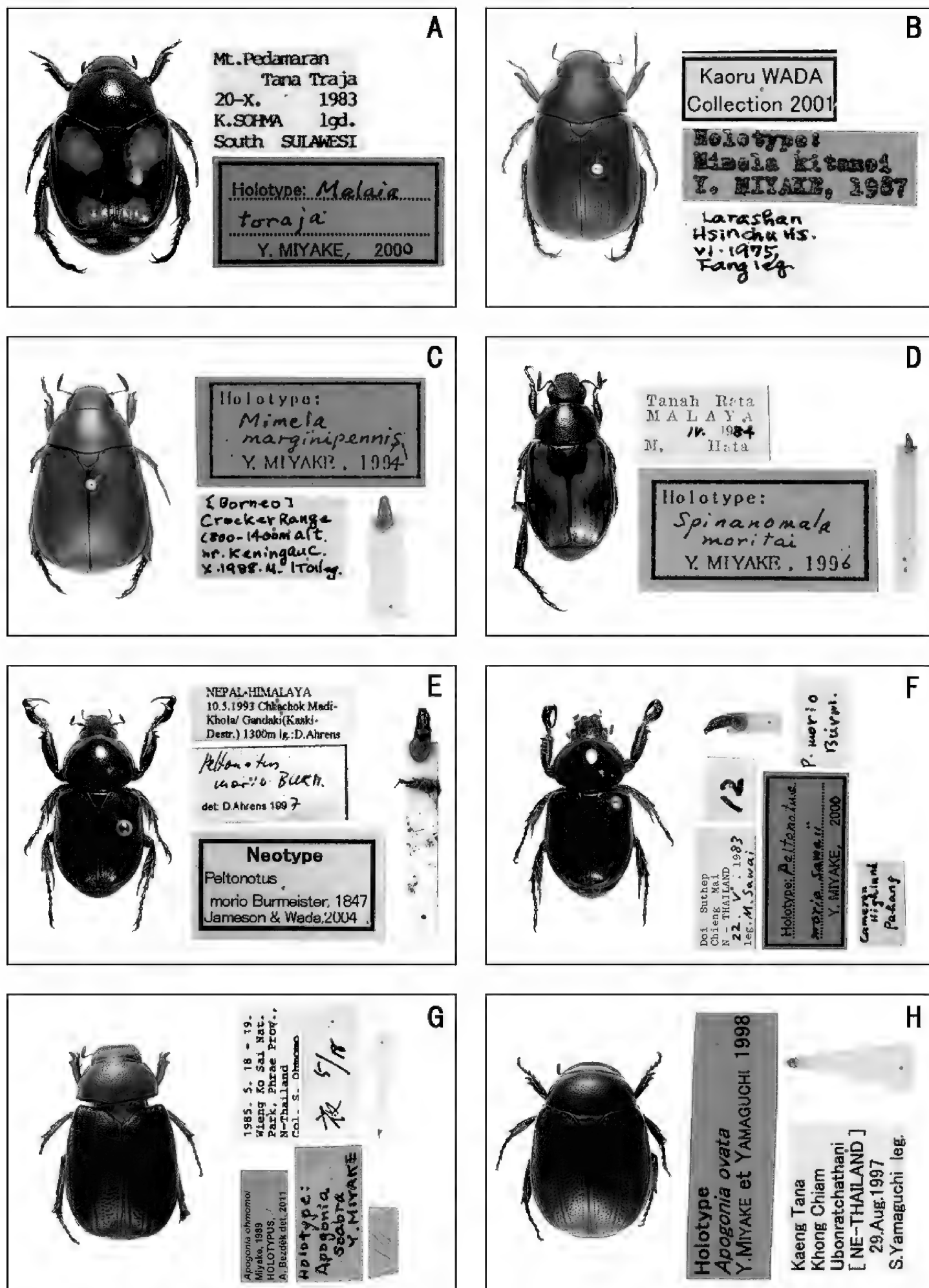
*Mimela marginipennis* Miyake, 1994: 151.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). '[Borneo] / Crocker Range / 1800–1400m alt. / nr. Keningau C. / X. 1988. M. ITOI leg. // Holotype: / *Mimela marginipennis* / Y. MIYAKE, 1994'. (Fig. 2C)

**Type condition.** The aedeagus of the holotype is pinned separately, and the left mesotarsus is missing.

**Current status.** Junior subjective synonym of *Mimela margarita* Arrow, 1910, see Wada (2001).



**Figure 2.** Habitus of holotype and neotype specimens. **A** *Malaia toraja* Miyake **B** *Mimela kitanoi* Miyake **C** *Mimela marginipennis* Miyake **D** *Spinanomala moritai* Miyake **E** *Peltonotus morio* Burmeister **F** *Peltonotus morio sawaii* Miyake **G** *Apogonia ohmomoi* Miyake **H** *Apogonia ovata* Miyake et Yamaguchi.



***Mimela sawaii* Miyake**

*Mimela sawaii* Miyake, 1994: 149–150.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: 1 ♂ ‘Crocker Range / (1000–1400 m) / Nr. Keningau C. / N. Borneo, – / 15–V–1989 // [blue label] // Paratype: / *Mimela* / *sawai* / Y. MIYAKE, 1994’.

**Current status.** Junior subjective synonym of *Mimela pallidicauda* Arrow, 1910, see Wada (2001).

***Mimela suspecta* Miyake**

*Mimela suspecta* Miyake, 1994: 150.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 2ex.: 1 ♂ ‘Mt. Trus Madi / (SW Slopa 1200m alt.) / Sabah, MALAYSIA / 14–IV–1993 / Minoru SAWAI leg. // Paratype: / *Mimela* / *suspecta* / Y. MIYAKE, 1994’. [[1 ex. ‘Mt. Trus Madi / (SW Slopa 1200m alt.) / Sabah, MALAYSIA / 18–IV–1993 (the date given in the original description is 4–IV–1993) / Minoru SAWAI leg. // [yellow label] // Paratype: / *Mimela* / *suspecta* / Y. MIYAKE, 1994’]].

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimen labeled as paratype is not designated in the original description: 1 ♂ ‘Trus Madi Mts. / near Keningau / Saba MALAYSIA / 1993. iv. 17–30. // F // Paratype: / *Mimela* / *suspecta* / Y. MIYAKE, 1994’.

**Genus *Popillia******Popillia iwasei* Miyake**

*Popillia iwasei* Miyake, 1996: 43–44.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 6 exs.: 2 ♀ ‘Puncak, Palopo / Centr. CELEBES / 1989. I / INDONESIA // Paratype: / *Popillia* / *iwasei* / Y. MIYAKE, 1996’. 2 ♀ ‘Puncak Palopo / C. Sulawesi / 1. 1989 // Paratype: / *Popillia* / *iwasei* / Y. MIYAKE, 1996’. 1 ♀ ‘Puncak Palopo / C. Sulawesi / 1989. V / INDONESIA // SI [yellow label] // Paratype: / *Popillia* / *iwasei* / Y. MIYAKE, 1996’. [[1 ♂ ‘Palolo (the locality given in the original description is Palopo) / II. 1991 (the date given in the original description and Telnov and Zorn (2019) are I. 1989) // Paratype: / *Popillia* / *iwasei* / Y. MIYAKE, 1996’]].

**Current status.** Valid species.

## Genus *Spilopopillia*

### *Spilopopillia rugosa* Miyake

*Spilopopillia rugosa* Miyake, 1989a: 180–181.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 18 exs.: [[1 ex. '[ Malaya ] / Fraser's Hill / 29–III–1977 (the date given in the original description is 28. III. 1977) / Y. Miyake leg. // Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989']]. [[1 ex. '[ Malaya ] / Freaser's Hill (the locality given in the original description is Fraser's Hill) / 30–III–1977 (the date given in the original description is 28. III. 1977) / Y. Miyake leg. // Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989']]. 6 exs. '[ Malaya ] / Tanah Rata / 30–III–1974 / Y, Miyake leg // Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989'. 9 exs. 'TANARATA / MALAYA / 30 III 1974 / Y. Miyake leg. // Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989'. [[1 ex. 'Gentig / Hiland (the locality given in the original description is Genting Highland) MALAYA / 5. IV. 1974 (the date given in the original description is 5. IV. 1975) / Y Miyake leg. // Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989']].

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 8 exs. 'Tanah Rata / MALAYA / 1. III. 1977 / Y. Miyake // Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989'. 5 exs. 'TANARATA / MALAYA / 28, 29, 30 III 1974 / Y. Miyake leg. // Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989'. 1 ex. '84. IV // Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989'. 2 exs. 'Paratype: / *Spilopopillia* / *rugosa* / Y. MIYAKE, 1989'.

## Genus *Spinanomala*

### *Spinanomala moritai* Miyake

Figure 2D

*Spinanomala moritai* Miyake, 1996: 38.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). 'Tanah Rata / MALAYA / IV. 1984 / M. Hata // Holotype: / *Spinanomala* / *moritai* / Y. MIYAKE, 1996'. (Fig. 2D)

**Paratypes.** 11 exs.: 1 ex. 'Tanah Rata / MALAYA / I–II. 1973 / MORITA, Kozo // Paratype: *Spinanomala* / *moritai* / Y. MIYAKE, 1996'. 2 ♂, 3 ♀ 'Tanah Rata / MALAYA / 1. III. 1977 / Y. Miyake // Paratype: *Spinanomala* / *moritai* / Y. MIYAKE, 1996'. 3 ♂, 2 ♀ 'Tanah Rata / MALAYA / IV. 1984 / M. Hata // Paratype: *Spinanomala* / *moritai* / Y. MIYAKE, 1996'.

**Type condition.** The aedeagus of the holotype is pinned separately and the right metaleg is missing.

**Current status.** Valid species.

**Remark.** The collecting data of the specimen labelled as the holotype do not match the original description. There are two male paratypes ('Tanah Rata / MALAYA / 1. III. 1977 / Y. Miyake // Paratype: Spinanomala / moritai / Y. MIYAKE, 1996') that match the holotype data.

In addition to the paratypes mentioned above, the following specimen labeled as the paratype is not designated in the original description: 1 ex. 'フレーザ-ヒル = furêzâhiru / MALAYA / 4 – 6. IV. 1977 / M. Hata // Paratype: Spinanomala / moritai / Y. MIYAKE, 1996'.

## Subfamily Dynastinae

### Genus *Papuana*

#### *Papuana timorensis* Miyake & Yamaya

*Papuana timorensis* Miyake & Yamaya, 1999: 103–104.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: 1 ♂ 'Timor Is. / Indonesia / V. 1993 / Native Coll. // Timor / Is. [aedeagus mount] // Paratype: / Papuana / timorensis YAMAYA / Y. MIYAKE, 1999'.

**Current status.** Valid species.

### Genus *Peltonotus*

#### *Peltonotus morio* Burmeister

Figure 2E

*Peltonotus morio* Burmeister, 1847: 75.

**Note.** The neotype is deposited in RIEB (ex coll. K. Wada):

**Neotype** (♂). 'NEPAL • HIMALAYA / 10. 5. 1993 Chhachok Madi– / Khola/ Gandaki (Kaski– / Destr.) 1300m lg: D. Ahrens // Peltonotus / morio Burn. / det: D. Ahrens 1997 // Neotype / Peltonotus / morio Burmeister, 1847 / Jameson and Wada, 2004'. (Fig. 2E)

**Type condition.** The aedeagus of the neotype is pinned separately.

**Current status.** Valid species.

**Remark.** The neotype was designated by Jameson and Wada (2004).

#### *Peltonotus morio sawaii* Miyake

Figure 2F

*Peltonotus morio sawaii* Miyake, 2000: 112–113.

**Note.** The holotype and the following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Doi Suthep / Chiang Mai / N–THAILAND/ 22. V. 1983 / leg. M. Sawai // 12 // P. morio / Burmi. [white label, front] // Cameron / Highland / Pahang [white label, back] // Holotype: *Peltonotus morio sawaii* / Y. MIYAKE, 2000’. (Fig. 2F)

**Paratypes.** 4 exs.: 2 ♂, 1 ♀ ‘Doi Suthep / Chiang Mai / N–THAILAND / 22. V. 1983 / leg. M. Sawai // Paratype: *Peltonotus morio sawaii* / Y. MIYAKE, 2000 // P. morio / Burmeister’. 1 ♀ ‘Doi Suthep / Chiang Mai / N–THAILAND / 22. V. 1983 / leg. M. Sawai // Paratype: *Peltonotus morio sawaii* / Y. MIYAKE, 2000’.

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Junior subjective synonym of *Peltonotus morio* Burmeister, 1847, see Krell and Bezděk (2016).

### ***Peltonotus podocrassus* Jameson & Wada**

*Peltonotus podocrassus* Jameson & Wada, 2004: 34–37.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 7 exs.: 2 exs. ‘[ Malaya ] / Tanah Rata / 30–III–1976 / Y. Miyake leg. // Paratype: *Peltonotus peninsularis* / Y. MIYAKE, 2000 // Paratype / *Peltonotus podocrassus* / Jameson and Wada, 2004’. 1 ♂ ‘39 miles from / Tapah, Malaya / 30–III–1976 / Y. Miyake leg. // Paratype: *Peltonotus peninsularis* / Y. MIYAKE, 2000 // Paratype / *Peltonotus podocrassus* / Jameson and Wada, 2004’. 1 ♂ ‘TANARATA / MALAYA / 30. III. 1976 / Y. Miyake leg. // Paratype: *Peltonotus peninsularis* / Y. MIYAKE, 2000 // Paratype / *Peltonotus podocrassus* / Jameson and Wada, 2004’. 1 ♂ ‘V. R.C. H.] Malaya / 21. III. 1978 // 46 // Paratype: *Peltonotus peninsularis* / Y. MIYAKE, 2000 // Paratype / *Peltonotus podocrassus* / Jameson and Wada, 2004’. 1 ex. [ Malaya ] / Tanah Rata / 1–IV–1984 / Y. Miyake leg. // Paratype: *Peltonotus peninsularis* / Y. MIYAKE, 2000 // Paratype / *Peltonotus podocrassus* / Jameson and Wada, 2004’. 1 ex. ‘TANARATA / MALAYA / 1. IV. 1984 / Y. Miyake // Paratype: *Peltonotus peninsularis* / Y. MIYAKE, 2000 // Paratype / *Peltonotus podocrassus* / Jameson and Wada, 2004’.

**Current status.** Valid species.

### ***Peltonotus sakaii* Miyake & Yamaya**

*Peltonotus sakaii* Miyake & Yamaya, 1994: 39–40, 42.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: ‘Mt. Serapi / SARAWAKU / 1991/III. // 20 // Paratype: / *Peltonotus sakaii* / Y. MIYAKE et YAMAYA, 1994 // *Peltonotus similis* Arrow, 1931 / det. Kaoru Wada, 2004’.

**Current status.** Junior subjective synonym of *Peltonotus similis* Arrow, 1931, see Krajcik (2012).

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ♂ ‘Mt. Serapi / Kuching, Sarawak / IX. 1990 / BORNEO // Paratype: / *Peltonotus sakaii* / Y. MIYAKE et YAMAYA, 1994 // *Peltonotus / similis* Arrow, 1931 / det. Kaoru Wada, 2004’. 1 ex. ‘Lembah Anai / W. Sumatra / VI. 1990 / INDONESIA // [yellow label] // Paratype: / *Peltonotus sakaii* / Y. MIYAKE et YAMAYA, 1994 // *Peltonotus / similis* Arrow, 1931 / det. Kaoru Wada, 2004’. 1 ♂ ‘Kimanis Road / Near Keningau / N. Borneo / 3–V–1994 // Paratype: / *Peltonotus sakaii* / Y. MIYAKE et YAMAYA, 1994 // *Peltonotus / similis* Arrow, 1931 / det. Kaoru Wada, 2004’. 2 exs. ‘Kimanis Road / Near Keningau / N. Borneo / 3–V–1994 // Paratype: / *Peltonotus sakaii* / Y. MIYAKE et YAMAYA, 1994 // *Peltonotus / similis* Arrow, 1931 / det. Kaoru Wada, 2004’.

### ***Peltonotus sulawesiensis* Wada**

*Peltonotus sulawesiensis* Wada, 1990: 1–2.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 4 exs.: ‘Tondano N. Celebes / INDONESIA / V 1988 / leg. N. Nisikawa // PARATYPE / *Peltonotus sulawesiensis* / Kaoru WADA, 1990’.

**Current status.** Junior subjective synonym of *Neohyphus celebesus* Heller, 1896, see Kuijten (1994).

## **Subfamily Melolonthinae**

### **Genus *Amiserica***

#### ***Amiserica rufidula* Nomura**

*Amiserica rufidula* Nomura, 1974: 84.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 2 exs.: 1 ♂ ‘Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // PARATYPE / *Amiserica / rufidula* / NOMURA (1974)’. 1 ♂ ‘Li-shan / Taiwan / 1. VIII. 1974 / Y. Miyake // ♂ // PARATYPE / *Amiserica / rufidula* / NOMURA (1974)’.

**Current status.** Valid species.

### **Genus *Apogonia***

#### ***Apogonia fujiokai* Miyake & Yamaya**

*Apogonia fujiokai* Miyake & Yamaya, 1997: 6–7.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: ‘Flores Is. / Indonesia / May. 1995 // Y // Paratype: / *Apogonia fujiokai* / Y. MIYAKE et YAMAYA, 1997’.

**Current status.** Valid species.

### *Apogonia fusciventris* Miyake & Yamaya

*Apogonia fusciventris* Miyake & Yamaya, 1997: 5–6.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: ‘Vangvieng / P. Vietiane / LAO. P. D. R. / 25–26. MAY. 1994. / K. Miura–leg. // Y // Paratype: *Apogonia / fuscoventris* / Y. MIYAKE et YAMAYA, 1997’.

**Current status.** Junior subjective synonym of *Apogonia striatipennis* Frey, 1971, see Kobayashi (2010).

**Remark.** The species name on the paratype label is ‘*fuscoventris*’, which is invalid. Probably, the name was confused with *fusciventris* by Y. Miyake.

### *Apogonia hongkongica* Miyake

*Apogonia hongkongica* Miyake, 1989b: 38–39.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 11 exs.: 1 ♂ ‘Hong Kong / China / C. K. Yu / 1974. V. [white label, front] // Native Collector / leg. [white label, back] // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’. 1 ♂ ‘Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Legt. / Native / Collector [white label, back] // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’. 1 ♂ ‘Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Native Collector [white label, back] // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’. 1 ♀ ‘♀ // Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Legt. / Native / Collector // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’. 1 ♀ ‘♀ // Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Native / Collector / leg. // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’. 1 ♀ ‘Hong Kong / 1974 / From C. K. Yu ♀ // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’. 1 ex. ‘Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Legt. / native / Collector [white label, back] // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’. 2 exs. ‘Hang Kong / China / V. 1974 / C. K. Yu Col [white label, front] // Native / Collector / leg. // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’. 2 exs. ‘Hong Kong / V. 1974 / From C. K. Yu // Paratype: / *Apogonia / hongkongica* / Y. MIYAKE, 1989’.

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘Hong Kong / 1975 / From. C. K-Yu // Paratype: *Apogonia / hongkongica* / Y. MIYAKE, 1989’.



1 ♀ ‘Hong Kong / ♀ 1975 [white label, front] // from / C. K. Yu [white label, back] // Paratype: / *Apogonia* / hongkongica / Y. MIYAKE, 1989’.

### ***Apogonia inconstans* Kobayashi & Bezděk**

*Apogonia inconstans* Kobayashi & Bezděk, 2011: 64–65.

**Note.** The following paratypes are deposited in RIEB (ex coll. A. Bezděk):

**Paratypes.** 4 exs.: 1 ♂ ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 5/18 夜= yoru [white label, back] // PARATYPE / *Apogonia* / *inconstans* / Kobayashi et Bezděk, 2011’. 1 ex. ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 5/18 夜= yoru [white label, back] // PARATYPE / *Apogonia* / *inconstans* / Kobayashi et Bezděk, 2011’. 1 ex. ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 夜= yoru 5/18 [white label, back] // PARATYPE / *Apogonia* / *inconstans* / Kobayashi et Bezděk, 2011’. 1 ex. ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // night [white label, back] // PARATYPE / *Apogonia* / *inconstans* / Kobayashi et Bezděk, 2011’.

**Current status.** Valid species.

### ***Apogonia ohmomo* Miyake**

Figure 2G

*Apogonia ohmomo* Miyake, 1989: 177–178.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 夜= yoru 5/18 [white label, back] // 14 // Holotype: / *Apogonia* / scabra / Y. MIYAKE // *Apogonia ohmomo* / Miyake, 1989 / HOLOTYPUS, ♂ / A. Bezděk det. 2011’. (Fig. 2G)

**Type condition.** The aedeagus of the holotype is pinned separately, and the right antenna, right and left protarsus, right mesoclaw, left mesotarsus, right metatarsus and mesonotum are missing.

**Current status.** Valid species.

**Remark.** The label ‘*Apogonia scabra*’ was apparently accidentally put by Miyake.

### ***Apogonia ovata* Miyake & Yamaguchi**

Figure 2H

*Apogonia ovata* Miyake & Yamaguchi, 1998: 25–27.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Kaeng Tana / Khong Chiam / Ubonratchathani / [NE-THAILAND] / 29. Aug. 1997 / S. Yamaguchi leg. // Holotype / *Apogonia ovata* / Y. MIYAKE et YAMAGUCHI 1998’. (Fig. 2H)

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Senior synonym of *Apogonia miyakei* Bezděk, 2004, see Bezděk (2004).

### ***Apogonia terminalis* Miyake, Yamaguchi & Akiyama**

Figure 3A

*Apogonia terminalis* Miyake, Yamaguchi & Akiyama, 2002: 56–58.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Don Far Huan (light) / Ubon Ratchathani / E-THAILAND / 17. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // Holotype / *Apogonia terminalis* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. (Fig. 3A)

**Paratypes.** 4exs.: 1 ♂ ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 5. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // Paratype / *Apogonia terminalis* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. 3 ♀ ‘Don Far Huan (light) / Ubon Ratchathani / E-TAILAND / 17. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // ♀ // Paratype / *Apogonia terminalis* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’.

**Type condition.** The aedeagus of the holotype is pinned separately, and the left proclaw, right and left mesotarsus, right metaclaw and left metatarsus are missing.

**Current status.** Valid species.

### ***Apogonia unidentata* Miyake, Yamaguchi & Akiyama**

Figure 3B

*Apogonia unidentata* Miyake, Yamaguchi & Akiyama, 2002: 55–56.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Miyake):

**Holotype** (♂). ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 5. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // Holotype / *Apogonia unidentata* // Holotype / *Apogonia unidentata* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. (Fig. 3B)

**Paratypes.** 6 exs.: 4exs. ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 5. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // Paratype / *Apogonia unidentata* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. 1 ex. ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 5. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // 63 // Paratype / *Apogonia unidentata* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. 1 ex. ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 14. Sep. 1999 / S.

Yamaguchi & / M. Akiyama leg. / シミレア = shimirea // Paratype / *Apogonia unidentata* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002'.

**Type condition.** The aedeagus of the holotype is pinned separately, and the right protarsus and right and left metatarsi are missing.

**Current status.** Valid species.

## Genus *Dichelomorpha*

### *Dichelomorpha sublineata* Miyake

Figure 3C

*Dichelomorpha sublineata* Miyake, 1994: 140–141.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). 'Is. Tioman, east of / Malay Pennisular March. 1993, nat, col // 1 [aedeagus mount] // Holotype: / *Dichelomorpha* / *sublineata* / Y. MIYAKE, 1994'. (Fig. 3C)

**Paratypes.** 34 exs.: 10 ♂ 'Is. Tioman, east of / Malay Pennisular / March. 1993. nat, col // Paratype: / *Dichelomorpha* / *sublineata* / Y. MIYAKE, 1994'. 14 exs. 'Is. Tioman, east of / Malay Pennisular / March. 1993. nat, col // Paratype: / *Dichelomorpha* / *sublineata* / Y. MIYAKE, 1994'. 1 ♂ 'Is. Tioman, east of / Malay Pennisular / March. 1993. nat, col // 11 // Paratype: / *Dichelomorpha* / *sublineata* / Y. MIYAKE, 1994'. 1 ex. 'Is. Tioman, east of / Malay Pennisular / March. 1993. nat, col // 4 // Paratype: / *Dichelomorpha* / *sublineata* / Y. MIYAKE, 1994'. [[8 exs. 'Tioman Is. / E. of Malaya / III–1933 (the date given in the original description is III–1993), W. // Paratype: / *Dichelomorpha* / *sublineata* / Y. MIYAKE, 1994']]].

**Type condition.** The aedeagus of the holotype is pinned separately. The right mesotarsus is missing.

**Current status.** Valid species.

**Remark.** Miyake (1994) did not provide a photograph of the holotype. Apparently he provided a photograph of a paratype, but we could not trace that specimen.

## Genus *Holomelia*

### *Holomelia gigantea* Miyake

Figure 3D

*Holomelia gigantea* Miyake, 1996: 35–36.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake).

**Holotype** (♂). '19 miles from / Tapah, Malaya / 1–II–1974 / Y. Miyake leg [white label, front] // Wu TET KONG / leg. [white label, back] // 29 ▪ 5 // 家 = ie [aedeagus mount] // Holotype: / *Holomelia* / *gigantea* / Y. MIYAKE, 1996'. (Fig. 3D)

**Paratypes.** 2 exs.: 1 ♂ ‘Cameron H. / MALAYA / Jan–Feb 1974 / Y. Miyake leg. // 30.5 // Paratype: / Holomelia gigantea / Y. MIYAKE, 1996 // 19 miles from / Tapah, Malaya / 1–II–1974 [white label, front] // Wu Tet Kong leg. [white label, back]’. 1 ex. ‘19 miles from / Tapah, Malaya / 1–II–1974 [white label, front] // Wu Tet Kong leg. [white label, back] // Paratype: / Holomelia gigantea / Y. MIYAKE, 1996’.

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.

**Remark.** Miyake (1996) did not provide a photograph of the holotype. Apparently he provided a photograph of a paratype, but we could not trace that specimen.

## Genus *Holotrichia*

### *Holotrichia loochooana umebayashii* Miyake

Figure 3E

*Holotrichia loochooana umebayashii* Miyake, 1986a: 1–2.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). [‘Loo-Choo’] Okinoerabuzima / 21. IV. 1957. / K. Umebayashi // 7 [white label, mounted on a part of tarsus] // HOLOTYPE / Holotrichia / loochooana / umebayashii / Y. MIYAKE, 1986’. (Fig. 3E)

**Type condition.** The aedeagus of the holotype is pinned separately. The left pro-tarsus and the right and left metatarsus are missing.

**Current status.** Junior subjective synonym of *Nigrotrichia loochooana okinawana* (Nomura, 1964), see Matsumoto (2016).

**Remark.** The collecting date in the original description is 1.V.1957, which disagrees with the label data.

### *Holotrichia yamayai* Miyake & Yamaguchi

Figure 3F

*Holotrichia yamayai* Miyake & Yamaguchi, 1998: 27–28.

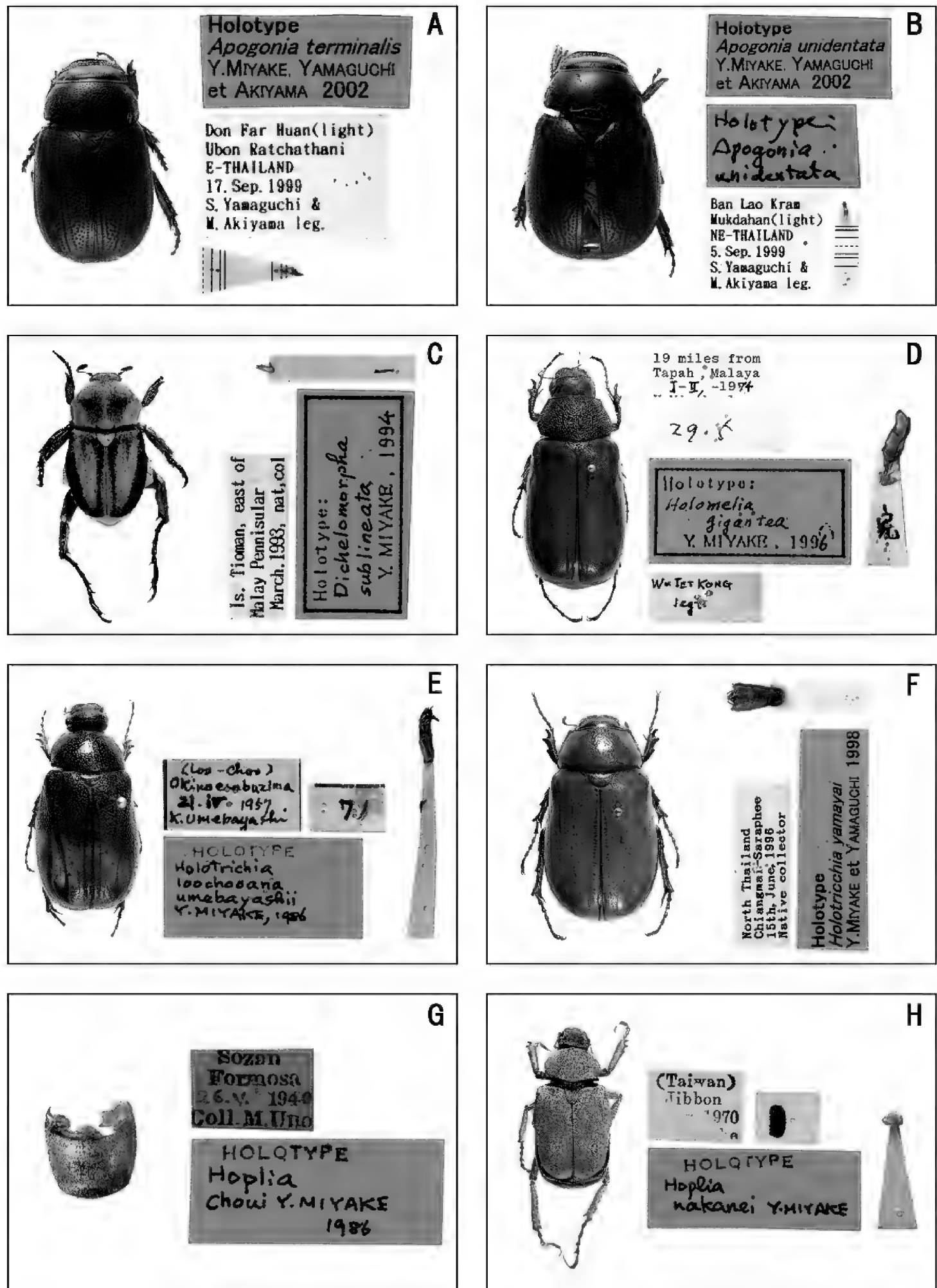
**Note.** The holotype and following paratype are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘North Thailand / Chiangmai-Saraphee / 15th, June, 1996 / Native collector // Holotype / *Holotrichia yamayai* / Y. MIYAKE et YAMAGUCHI 1998’. (Fig. 3F)

**Paratype.** 1 ex.: 1 ♀ ‘Kaeng Tana / Khong Chiam / Ubonratohathani / [ NE-THAILAND ] / 27. Aug. 1997 / S. Yamaguchi leg. // Paratype / *Holotrichia yamayai* / Y. MIYAKE et YAMAGUCHI 1998’.

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.



**Figure 3.** Habitus of holotype specimens. **A** *Apogonia terminalis* Miyake, Yamaguchi et Akiyama **B** *Apogonia unidentata* Miyake, Yamaguchi et Akiyama **C** *Dichelomorpha sublineata* Miyake **D** *Holomelia gigantea* Miyake **E** *Holotrichia loochooana umebayashii* Miyake **F** *Holotrichia yamayai* Miyake et Yamaguchi **G** *Hoplia choui* Miyake **H** *Hoplia nakanei* Miyake.

## Genus *Hoplia*

### *Hoplia choui* Miyake

Figure 3G

*Hoplia choui* Miyake, 1986b: 203–204.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Sozan / Formosa / 26. V. 1940 / Coll. M. Uno // HOLOTYPE / *Hoplia* / Choui Y. MIYAKE / 1986’. (Fig. 3G)

**Type condition.** Abdomen only.

**Current status.** Valid species.

**Remark.** Most part of the holotype specimen was destroyed by *Anthrenus verbasci*.

### *Hoplia nakanei* Miyake

Figure 3H

*Hoplia nakanei* Miyake, 1986b: 207.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘( Taiwan ) / Jibbon / 2. iv. 1970 / Y. Miyake // 1 // HOLOTYPE / *Hoplia* / nakanei Y. MIYAKE’. (Fig. 3H)

**Paratypes.** 29 exs.: 4 exs. ‘[ Taiwan ] / 六龜= liugui. 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // Paratype / *Hoplia* / nakanei / Y. Miyake, 1986’. 5 exs. ‘[ Taiwan ] / Liukuei 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // Paratype / *Hoplia* / nakanei / Y. Miyake, 1986’. 1 ex. ‘[ Taiwan ] / 六龜= liugui. 石山= shi shan / 9–VI–1976 / 陳文龍= chen wenzhao leg. // Paratype / *Hoplia* nakanei / Y. Miyake, 1986’. 4 exs. ‘[ Taiwan ] / Baibara / –V–1963 / T. Shirozu leg. // Paratype / *Hoplia* / nakanei / Y. Miyake, 1986’. 1 ex. ‘[ Taiwan ] / Baibara / –V–1963 / Shirozu leg. // Paratype / *Hoplia* / nakanei / Y. Miyake, 1986’. 1 ex. ‘[ Taiwan ] / Baibara / –V–1963 / T. Shirozu // Paratype: *Hoplia* / nakanei Y. Miyake, 1986’. 1 ♂ ‘六龜= liugui. 石山= shi shan / alt. 2000 m / 9. VI. 1976 // Paratype: / *Hoplia* / nakanei / Y. MIYAKE, 1986’. 1 ex. ‘FENCHIFO / FORMOSA / 24. V. 1975 / K. MATSUDA // Paratype: / *Hoplia* nakanei / Y. MIYAKE, 1986’. 1 ex. ‘Swakang / Taiwan / 15. VI. 1970 / Fukuda // Paratype: / *Hoplia* nakanei / 1986. Y. MIYAKE’. 1 ex. ‘NANSHANCHI / TAIWAN / 1. IV. 1970 / H. NOMURA // PARATYPE / *Hoplia* / nakanei / Y. MIYAKE, 1986’. [[4 exs. ‘[ Taiwan ] / Baibara / V. 1965 (the date given in the original description is V. 1963) / T. Shirozu // Paratype / *Hoplia* nakanei / Y. Miyake’]]. [[2 exs. ‘[ Taiwan ] / Baibara / V. 1965 (the date given in the original description is V. 1963) / T. Shirozu // Paratype / *Hoplia* nakanei / Y. Miyake, 1986’]]. [[1 ♂ ‘[ Taiwan ] / Baibara / V. 1965 (the date given in the original description is V. 1963) / Col. T. Shirozu // Paratype / *Hoplia* nakanei / Y. Miyake, 1986’]]. [[1 ex. ‘[ Taiwan



] / Baibara / V. 1965 (the date given in the original description is V. 1963) / Col. T. Shirozu // Paratype / *Hoplia nakanei* / Y. Miyake, 1986’]]. [[1 ex. ‘[ Taiwan ] / Baibara / V. 1965 (the date given in the original description is V. 1963) / Col. T. Shirozu // Paratype / *Hoplia nakanei* / 1986. Y. Miyake’]].

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.

**Remark.** The label data the holotype do not match the original description. There is one male paratype (‘六龜= liugui. 石山= shi shan / alt. 2000 m / 9. VI. 1976 // Paratype: / *Hoplia* / *nakanei* / Y. MIYAKE, 1986’) that agrees with the data of the holotype. Probably the type labels were mixed up and this specimen should be considered the holotype.

In addition to the paratypes listed above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘[ Taiwan ] / Liukuei / –V–1963 / T. Shirozu col. // Paratype / *Hoplia* / *nakanei* / Y. Miyake, 1986’. 1 ex. ‘APR II. 1971 / 榮華= ronghua / B-S. CHANG // PARATYPE / *Hoplia* / *nakanei* / Y. MIYAKE, 1986’. 1 ex. ‘Paratype / *Hoplia nakanei* / Y. MIYAKE, 1986’.

### *Hoplia nengkaoshana* Miyake

*Hoplia nengkaoshana* Miyake, 1986b: 211.

**Note.** The allotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Allotype** (♀). ‘Allotype // mt. Noko (2650 m) / V. 20–VI. 2, 1966 // 1 // PARATYPE / *Hoplia* / *nengkaoshana* / Y. MIYAKE, 1986’.

**Paratypes.** 3ex.: 1 ♂ ‘mt. Nōhō / C-Formosa / V–20 ~ Vi–21 1966 // PARATYPE / *Hoplia* / *nengkaoshana* / Y. MIYAKE, 1986’. 1 ♂ ‘MT. HÔFAN / FORMOSA / 5–V. 73 / T. OCHI // 1 // PARATYPE / *Hoplia* / *nengkaoshana* / Y. MIYAKE, 1986 // *Hoplia* / *inornata* / H. Kobayashi, 1990 / Det. H. Kobayashi, 2015’. 1 ex. ‘JUL. 16. 1966 / 合欢山= hehuan shan / B. S. Chang // PARATYPE / *nengkaoshana* / Y. MIYAKE, 1986 // *Hoplia* / *inornata* / H. Kobayashi, 1990 / Det. H. Kobayashi, 2015’.

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘台中= tai chung 和平鄉= heping xiang 旱等村= zaodeng cun / 橫貫公路= hengguan gonglu. 梨山站= lishan zhan / 海拔= kaibatsu 1679–2196 m. / 13–16. V. 1958. 陶家駒= tao jiayu // PARATYPE / *Hoplia* / *nengkaoshana* / Y. MIYAKE, 1986’. 1 ex. ‘AUG 13. 1970 / 新坡= xinpo / B-S. CHANG // PARATYPE / *Hoplia* / *nengkaoshana* / Y. MIYAKE, 1986’.

### *Hoplia simillima* Miyake

Figure 4A

*Hoplia simillima* Miyake, 1986b: 206–207.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). '[Taiwan] / Liukuei 石山= shi shan / 9–VI–1979 / Y. Miyake leg. // HOLOTYPE / Hoplia / simillima / Y. MIYAKE, 1986'. (Fig. 4A)

**Paratypes.** 5 exs.: 3 exs. '(FORMOSA) / Baibara / –V–1969 // Paratype / Hoplia / simillima / 1989, Y. Miyake'. 2 exs. '(FORMOSA) / Baibara / –V–1969 / T. Shirozu // Paratype / Hoplia / simillima / 1989, Y. Miyake'.

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. '[Taiwan] / Liukuei 石山= shi shan / 9–VI–1979 / Y. Miyake leg. // Paratype / Hoplia / simillima / 1989, Y. Miyake'. 1 ♂ '石= ishi // [Taiwan] / 六龜= liugui 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // Paratype / Hoplia / simillima / 1989, Y. Miyake'. 1 ex. '(FORMOSA) / Mt. Ali / 14 V 1968 / Y. HAYASHI // Paratype'.

### *Hoplia taiwana* Miyake

Figure 4B

*Hoplia taiwana* Miyake, 1986b: 204.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). 'HOLOTYPE / Hoplia / Taiwana Y. MIYAKE / 1986'. (Fig. 4B)

**Paratypes.** 9 exs.: 1 ex. 'NANSHANCHI / TAIWAN / 3. IV. 1970 / H. NOMURA // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986'. 1 ex. 'NANSHANCHI / TAIWAN / 4. IV. 1970 / H. NOMURA // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986'. 1 ex. 'NANSHANCHI / TAIWAN / 5. IV. 1970 / Y. KIYOYAMA // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986'. 1 ex. 'SUNGKANG / FORMOSA / 29. VI. 1971 / Y. MAEDA // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986'. 1 ex. 'NANSHANCHI / TAIWAN / 31. III. 1981 / Y. YAMAMOTO // Paratype / Hoplia / taiwana / Y. MIYAKE, 1986'. 1 ex. 'NANSHANCHI / TAIWAN / 1. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana Y. MIYAKE / (1968)'. 1 ex. 'NANSHANCHI / TAIWAN / 2. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana Y. MIYAKE'. 1 ex. 'NANSHANCHI / TAIWAN / 2. IV. 1981 / F. KIMURA // Paratype / Hoplia taiwana / 1986 Y. MIYAKE'. 1 ex. 'NANSHANCHI / TAIWAN / 3. IV. 1981 / Y. YAMAMOTO // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986'.

**Current status.** Valid species.

**Remark.** The locality label data of the holotype are missing but the specimen agrees with the original description.

In addition to the paratypes mentioned above, the following specimens labeled as paratypes were not designated in the original description: 3 exs. '[Taiwan] / Liukuei 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // PARATYPE / Hoplia / taiwana / Y. MIYAKE, 1986'. 1 ex. '[Taiwan] / 六龜= liugui 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // PARATYPE

/ *Hoplia* / taiwana / Y. MIYAKE, 1986'. 2 exs. 'Mt. YUSHAN / TAIWAN / 8. VI. 1980 / M. YAMAMOTO // Paratype / *Hoplia* / taiwana Y. MIYAKE'. 4 exs. 'TAIWAN / 陽明山= mt. yangmingshan / 20. IV. 1956 / COL. K. S. LIN // Paratype / *Hoplia* / taiwana / Y. MIYAKE, 1986'. 1 ex. 'LUSHAN / FORMOSA / 13–IV. 74 / S. TAKEDA // PARATYPE / *Hoplia* / taiwana / Y. MIYAKE, 1986'. 1 ex. '榮華= ronghua / APR. 7. 1971 / BS, CHANG // PARATYPE / *Hoplia* taiwana / Y. MIYAKE, 1986'. 1 ex. '[ Taiwan ] / Baibara / –V–1965 / T. Shirozu leg. // Paratype: *Hoplia* / taiwana Y. MIYAKE. 1986'.

## Genus *Maladera*

### *Maladera hiranoi* Miyake

Figure 4C

*Maladera hiranoi* Miyake, 1986b: 3–5.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). '三京= mikyô / 21/VII–82 // HOLOTYPE / *Maladera* / hiranoi MIYAKE / (1986) // *Maladera* / impressithorax / hiranoi Y. MIYAKE / DET. Y. MIYAKE, 199 // ムナクボビロウドコガネ= munakubobirôdokogane / *Maladera* (*japonica*–G) / *impressithorax* / Nomura, 1973 / Det. H. Hirasawa 2012'. (Fig. 4C)

**Current status.** Junior subjective synonym of *Maladera okinoerabuana* Kobayashi, 1978, see Ahrens and Bezděk (2016).

**Remark.** The date on the collecting data label of the holotype is 21.VII.1982, but the collecting date quoted in the original description is 22.VII.1982. Probably, Miyake made a typographical error when writing the description.

### *Maladera kobayashii* Nomura

*Maladera kobayashii* Nomura, 1974: 106–107.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 2 exs.: 1 ♂ 'Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // PARATYPE / *Maladera* (s. str) / kobayashii / NOMURA (1974)'. 1 ♀ 'Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♀ // PARATYPE / *Maladera* / kobayashii / NOMURA (1974)'.

**Current status.** Valid species.

### *Maladera kusuii* Miyake

Figure 4D

*Maladera kusuii* Miyake, 1986b: 2–3.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘三宅= miyake / コガネムシ上科標準図鑑= kogagemushijyôka-hyôjyunzukan / ビロウドコガネ族= birôdokoganezoku / 図鑑使用標本= zukanshiyôhyôhon / 執筆担当= shippitsutantô: 平沢 伴明= hirasawa tomoaki / 学研教育出版= gakken-kyôikushuppan (2012) // GAKIYA / Iheya-jima / Aug. 11 1977 / leg. Y Kusui // イハヤビロウドコガネ= iheyabirôdokogane / Maladera (japonica–G) / kusui / Y. Miyake, 1986 / Det. H. Hirasawa 2012 // Holotype: / Maladera kusui / Y. MIYAKE, 1986’.

**Type condition.** The aedeagus of the holotype is pinned separately. The right and left protarsi, the left mesotarsus, and the right and left metatarsi are missing, but some of the missing parts are pinned separately.

**Current status.** Valid species.

### *Maladera lishana* Miyake

*Maladera lishana* Miyake, 1989b: 37–38.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: 1 ♀ ‘Lishan / Taiwan / 28. VII. 1973 / Y. Miyake // Paratype: / Maladera / lishana / Y. MIYAKE, 1989’.

**Current status.** Valid species.

### *Maladera nanshanchiana* Nomura

*Maladera nanshanchiana* Nomura, 1974: 111–112.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 2 exs.: 1 ex. ‘Puli 24 // PARATYPE / Maladera / nanshanchiana / NOMURA (1974)’. 1 ♀ ‘Puli 24 // ♀ // PARATYPE / Maladera / nanshanchiana / NOMURA (1974) // ナンザンケイビロウドコガネ= nanzenkeibirodokogane / *Maladera* (*Cephaloserica*) / nanshanchiana / Nomura, 1974 / Det. H. Hirasawa 2012’.

**Current status.** Valid species.

### *Maladera secreta horaiana* Nomura

*Maladera secreta horaiana* Nomura, 1974: 112.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: 1 ♂ ‘Lishan / C. Taiwan / 29. vii. 1973 / Y. Miyake // 三宅= miyake // PARATYPE / Maladera / secreta / horaiana / NOMURA (1974)’.

**Current status.** Valid species.

### Genus *Melanomaladera*

#### *Melanomaladera yunnana* Miyake & Yamaya

*Melanomaladera yunnana* Miyake & Yamaya, 2001: 38–39.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 2 exs.: 1 ♂ ‘China, N W Yunnan / Degen City env. / 3300 m alt. / 29. Jun. 1998 / A. Gorodinsky leg. // 13 // Paratype: / Melanoserica / yunnana’. 1 ♀ ‘China, N W Yunnan / Degen City env. / 3300 m alt. / 29. Jun. 1998 / A. Gorodinsky leg. // 13 // Paratype: / Melanoserica / yunnana’.

**Current status.** *Archeohomaloplia yunnana* (Miyake et Yamaya, 2001), see Ahrens and Bezděk (2016).

**Remark.** The genus name on the paratype labels is ‘*Melanoserica*’, which is invalid. Probably, it was confused with ‘*Melanomaladera*’ by Y. Miyake.

### Genus *Microserica*

#### *Microserica* (*Parvulomaladera*) *annapurnae* Ahrens

*Microserica* (*Parvulomaladera*) *annapurnae* Ahrens, 1995: 46–48.

**Note.** The following paratype is deposited in RIEB (ex coll. D. Ahrens):

**Paratype.** 1 ex.: ‘NEPAL–HIMALAYA / Annapurna–Mts. / leg. Ahrens 1993 // Pisang bis / Manang, 30. 5. / 3000–3300 m // PARATYPEUS / *Parvulomaladera* / *annapurnae* sp. n. / det. D. AHRENS 1994’.

**Current status.** *Oxyserica pygidialis annapurnae* (Ahrens, 1995), see Ahrens and Bezděk (2016).

#### *Microserica nitidipyga* Nomura

*Microserica nitidipyga* Nomura, 1974: 99.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: ‘Lu-SHAN / FORMOSA / 27. IV. 1973 / K. MATSUDA // 三宅 = miyake // Paratype / *Microserica* / *nitidipyga* / NOMURA (1974) // *Microserica* / *nitidipyga* NOM. / DET. Y. MIYAKE, 1994’.

**Current status.** Valid species.

**Genus *Nematophylla******Nematophylla sugiharai* Miyake**

Figure 4E

*Nematophylla sugiharai* Miyake, 2000: 106–108.**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):**Holotype** (♂). ‘Kiau Gap / Mt. Kinabalu / Sabah, Borneo / 1. IV. 2000 / H. SUGIHARAI leg. // Holotype: *Nematophylla* / *sugiharai* / Y. MIYAKE 2000’. (Fig. 4E)**Current status.** Junior subjective synonym of *Nematophylla carinicollis* Arrow, 1938, see Krajcik (2012).**Genus *Nipponoserica******Nipponoserica pubiventris* Nomura***Nipponoserica pubiventris* Nomura, 1976b: 189–190.**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):**Paratype.** 1 ex.: ‘Takashinohama, / Osaka Pref. / 3. VI. 1974 / Coll. Mitsuo Goto // at light // PARATYPE / *Nipponoserica* / *pubiventris* / NOMURA (1976)’.**Current status.** Valid species.**Genus *Paramaladera******Paramaladera makiharai* Nomura***Paramaladera makiharai* Nomura, 1974: 101–102.**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):**Paratypes.** 4 exs.: 4 ♂ ‘Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // Paratype / *Paramaladera* / *makiharai* / NOMURA (1974)’.**Current status.** Valid species.**Genus *Pseudohoplia******Pseudohoplia shibatai* Miyake***Pseudohoplia shibatai* Miyake, 1986b: 201.**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):



**Paratypes.** 2 exs.: 1 ♂ ‘(FORMOSA)/ Mt. Ali / 15 V 1968 / Y. HAYASHI // Paratype // *Hoplia* / *shibatai shibatai* / Y. Miyake, 1986 / Det. H. Kobayashi, 2015’. 1 ex. ‘(FORMOSA)/ Mt. Ali / 15 V 1968 / Y. HAYASHI // Paratype // *Hoplia* / *shibatai shibatai* / Y. Miyake, 1986 / Det. H. Kobayashi, 2015’.

**Current status.** *Hoplia shibatai shibatai* (Miyake, 1986), see Kobayashi (2017).

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘Mt. Arishan / Formosa / 1. V. 1973 / K. MATSUDA // Paratype // Paratype / *Pseudohoplia* / *shibatai* / Y. Miyake, 1986 // 贈台灣農試= zou-taiwan-noushi’. 1 ♂ ‘Houanchi- / Sund-chuankang / Nantou Hsien / Taiwan / 25. VI. 1976 / H. Makihara leg. // Paratype // Paratype / *Pseudohoplia* / *shibatai* / Y. Miyake, 1986’. 1 ex. ‘Mt. Arishan / Formosa / 1. V. 1973 / K. MATSUDA // Paratype / *Pseudohoplia* / *shibatai* / Y. Miyake, 1986’. 1 ex. ‘MT. ARI / FORMOSA / 1. V. 1973 / K. MATSUDA // Paratype // Paratype / *Pseudohoplia* / *shibatai* / Y. Miyake, 1986’.

***Pseudohoplia shibatai makiharai* Miyake**

Figure 4F

*Pseudohoplia shibatai makiharai* Miyake, 1986b: 202.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Mt. Lalashan / Taoyuan Hsien / Taiwan / 21–24. V. 1980 / H. Makihara // HOLOTYPE / *Pseudohoplia* / *shibatai makiharai* / Y. MIYAKE, 1986’. (Fig. 4F)

**Type condition.** The aedeagus of the holotype is pinned separately. The right antenna is missing.

**Current status.** *Hoplia shibatai makiharai* (Miyake, 1986), see Kobayashi (2017).

***Pseudohoplia shibatai matsudai* Miyake**

Figure 4G

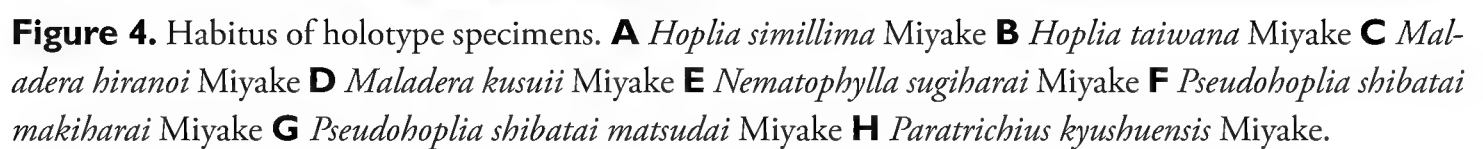
*Pseudohoplia shibatai matsudai* Miyake, 1986b: 202.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Mt. Nōko / C-Formosa / v-20~vi-21’ 66 // HOLOTYPE / *Pseudohoplia* / *shibatai matsudai* / Y. MIYAKE, 1986’. (Fig. 4G)

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Junior subjective synonym of *Hoplia shibatai shibatai* (Miyake, 1986), see Kobayashi (2017).



**Genus *Pseudomaladera******Pseudomaladera nitidifrons* Nomura**

*Pseudomaladera nitidifrons* Nomura, 1974: 96.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 2 exs.: 1 ♂ ‘FUNCHUHO / FORMOSA / 1. VIII. 1973 / H. OHASHI // ♂ // 三宅 = miyake // Paratype / *Pseudomaladera* / *nitidifrons* / NOMURA, 1974’. 1 ♂ ‘MEIFENG / FORMOSA / 1. VIII. 1973 / T. OCHI // ♂ // Paratype / *Pseudomaladera* / *nitidifrons* / NOMURA, 1974’.

**Current status.** Valid species.

**Genus *Sinoserica******Sinoserica maculipennis* Miyake & Yamaya**

*Sinoserica maculipennis* Miyake & Yamaya, 2001: 40–41.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 2 exs.: ‘China, Yunnan / Boshan C. env. / 2100 m alt. / 10. VII. 1998 / A. Gorodinski // 12 // Paratype / *Sinoserica* / *maculipennis*’.

**Current status.** *Trioserica maculipennis* (Miyake et Yamaya, 2001), see Ahrens and Bezděk (2016).

**Genus *Serica******Serica fusifemorata* Nomura**

*Serica fusifemorata* Nomura, 1974: 91.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 11 exs.: 1 ♀ ‘Lishan / C. Taiwan / 29. vii. 1973 / Y. Miyake // ♀ // 三宅 = miyake // Paratype / *Serica* / *fusifemorata* / NOMURA (1974)’. 2 ♀ ‘Li-shan / C. Taiwan / 26. VII. 1974 / Y. Miyake // ♀ // Paratype / *Serica* / *fusifemorata* / S. NOMURA (1974)’. 2 ♂ ‘Li-shan / C. Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // Paratype / *Serica* / *fusifemorata* / S. NOMURA (1974)’. 2 ♀ ‘Li-shan / C. Taiwan / 29. VII. 1974 / Y. Miyake // ♀ // Paratype / *Serica* / *fusifemorata* / S. NOMURA (1974)’. 1 ♂ ‘Li-shan / C. Taiwan / 1. VIII. 1974 / Y. Miyake // ♂ // Paratype / *Serica* / *fusifemorata* / S. NOMURA (1974)’. 2 ♀ ‘Li-shan / C. Taiwan / 1. VIII. 1974 / Y. Miyake // ♀ // Paratype / *Serica* / *fusifemorata* / S. NOMURA (1974)’. 1 ♀ ‘27 // ♀ // Paratype / *Serica* / *fusifemorata* / S. NOMURA (1974)’.

**Current status.** Valid species.

***Serica gansuensis* Miyake & Yamaya**

*Serica gansuensis* Miyake & Yamaya, 2001: 35–36.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: ‘China, Gangu / Mts. Minshan / nr. Wudn. 2100 / 1. VI. 1997 / A. Gorodinski // 4 // Paratype: / *Serica* / *gansuensis*’.

**Current status.** Valid species.

**Genus *Sericania******Sericania miyakei* Nomura**

*Sericania miyakei* Nomura, 1960: 60.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: ‘Paratype // TASHIRO / CHIKUGO / 4. V. 1952 / Y. MIYAKE // *Sericania* / *miyakei* / NOMURA (1960)’.

**Current status.** Valid species.

**Genus *Sophraps******Sophraps takatoshii* Itoh**

*Sophraps takatoshii* Itoh, 1990: 9–10.

**Note.** The following paratypes are deposited in RIEB (ex coll. T. Itoh):

**Paratypes.** 3 exs.: ‘1989–4–17 / 平良植物園= hirara-syokubutsuen / (宮古島)= miyako-jima / leg. T. Ueno // Paratype / *Sophraps* / *takatoshii* / T. Itoh’.

**Current status.** Valid species.

**Genus *Taiwanoserica******Taiwanoserica elongata* Nomura**

*Taiwanoserica elongata* Nomura, 1974: 86.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 1 ex.: 1 ♂ ‘MT. ARI / FORMOSA / 30. VII. 1973 / H. OHASHI // ♂ // 三宅= miyake // Paratype / *Taiwanoserica* / *elongata* / NOMURA (1974)’.

**Current status.** *Serica* (*Taiwanoserica*) *elongata* (Nomura, 1974), see Ahrens and Bezděk (2016).

***Taiwanoserica lishana* Nomura**

*Taiwanoserica lishana* Nomura, 1974: 87.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 22 exs.: 2 ♂ 'Lishan / C. Taiwan / 30. vii. 1970 / Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)'. 6 ♂ 'Lishan / C-Taiwan / 29. vii. 1973 / Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)'. 4 ♀ 'Lishan / C-Taiwan / 29. vii. 1973 / Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)'. 4 ♂ 'Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)'. 1 ♀ 'Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)'. 4 ♂ 'Li-shan / Taiwan / 1. VII. 1974 // Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)'. 1 ♀ 'Li-shan / Taiwan / 1. VII. 1974 // Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)'.

**Current status.** *Serica* (*Taiwanoserica*) *lishana* (Nomura, 1974), see Ahrens and Bezděk (2016).

**Genus *Trichomaladera******Trichomaladera elongata* Nomura**

*Trichomaladera elongata* Nomura, 1974: 93–94.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: 1 ♂ 'Paratype / Trichomaladera / elongata / NOMURA (1974)'.

**Current status.** Valid species.

**Remark.** The collecting data label of the paratype is missing.

**Genus *Trichoserica******Trichoserica elongata nitididorsis* Nomura**

*Trichoserica elongata nitididorsis* Nomura, 1971: 70–71.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: 'Mt. Hiko / [KYUSHU] / 27. 7. 1960 / TAKEISHI // Paratype / Trichoserica / elongata / nitididorsis / Nomura'.

**Current status.** *Serica nitididorsis* (Nomura, 1971), see Ahrens and Bezděk (2016).

***Trichoserica incurvata* Nomura**

*Trichoserica incurvata* Nomura, 1971: 67–68.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 8 exs.: 1 ex. ‘Aomori-pref / 17–vii–1956 / S. Kimotog // Paratype / Trichoserica / incurvata / Nomura (1971) // Aomori / 17. VII. 1956 / S. Kimoto’. 1 ♂ ‘17. VII. 1956 / S. Kimoto // Paratype / Trichoserica / incurvata / Nomura (1971)’. 2 exs. ‘Aomori-pref / 19–vii–1956 / S. Kimotog // Paratype / Trichoserica / incurvata / Nomura (1971) // Kimoto S. / 19. VII. 1956’. 1 ex. ‘Aomori-pref / 19–vii–1956 / S. Kimotog // Paratype / Trichoserica / incurvata / Nomura (1971) // 19. VII. 1956 / S. Kimoto’. 2 exs. ‘Sensuidani 1200 m / Okutama Tokyo / 21–VII–1968 / Coll. H. Yuasa // Paratype / Trichoserica / incurvata / Nomura (1971)’. 1 ex. ‘Okutama / 21. VII. 1968 / YUASA // Paratype / Trichoserica / incurvata / Nomura (1971)’.

**Current status.** *Serica incurvata* (Nomura, 1971), see Ahrens and Bezděk (2016).

### ***Trichoserica nitidiceps* Nomura**

*Trichoserica nitidiceps* Nomura, 1971: 69–70.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: 1 ♂ ‘(Kyushu) / Mt. Sobo / 23. V. 1952 / Y. Miyake // Paratype / Trichoserica / nitidiceps / NOMURA’.

**Current status.** Junior subjective synonym of *Serica inexpectata* (Kontkanen, 1956), see Ahrens and Bezděk (2016).

**Remark.** In addition to the paratype mentioned above, the following specimen labeled as paratype is not designated in the original description: 1 ex. ‘Mt. Kuju / Bungo / 28. vii. 1961 / Y. Miyake // Paratype / Trichoserica / nitidiceps / NOMURA (1971)’.

### ***Trichoserica opacifrons* Nomura**

*Trichoserica opacifrons* Nomura, 1971: 68–69.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 3 exs.: 1 ♂ ‘Mt. Hiko / Buzen / 1. VIII. 1953 / Y. Miyake // Paratype / Trichoserica / opacifrons / NOMURA’. 1 ex. ‘mt. Kujū / Hokkeiin / 27. VII. 1961 / Y. Miyake Coll // Paratype / Trichoserica / opacifrons / NOMURA’. 1 ♂ ‘[ Kyushu ] / Yakushima / 21. Vi. 1954 / Col. K. Matsuda // Paratype / Trichoserica / opacifrons / NOMURA // Ophthalmoserica/ matsudai / sp.n. / DET. Y. MIYAKE’.

**Current status.** Senior objective synonym of *Serica planifrons* Nomura, 1972, see Ahrens and Bezděk (2016). Nomura (1972) proposed *Serica planifrons* as a replacement name for *Serica opacifrons* (Nomura, 1971), a junior secondary homonym of *Serica opacifrons* Fairmaire, 1891.

**Subfamily Cetoniinae****Genus *Anomalocera******Anomalocera paotao* Masumoto & Sakai**

*Anomalocera paotao* Masumoto & Sakai, 1987a: 51–54.

**Note.** The following paratypes are deposited in RIEB (ex coll. Masumoto):

**Paratypes.** 2 exs.: 1 ex. 'Lishan / Taiwan / 28. VII. 1974 / Y. Miyake // Paratype / *Anomalocera* / *paotao* MAS. et SAK.'. 1 ex. 'Lishan / C, -Taiwan / 29 vii. 1973 / Y. Miyake // Paratype / *Anomalocera* / *paotao* MAS. et Sak.'.

**Current status.** *Diphyllomorpha paotao* (Masumoto et Sakai, 1987), see Bezděk (2016).

**Genus *Rhomborhina******Rhomborhina kurosawai* Masumoto & Sakai**

*Rhomborhina kurosawai* Masumoto & Sakai, 1987b: 104–105, 107.

**Note.** The following paratypes are deposited in RIEB (ex coll. Masumoto):

**Paratypes.** 3 exs.: 2 ♂ 'FORMOSA / tattaka / 9, VIII 1971 / H. OHARA // Paratype / *Rhomborhina* / *kurosawai* / MASUMOTO et K. SAKAI'. [[1 ♂ 'Tsui Feng / C. Tsiwan / 26. vii. 1970 (the date given in the original description is 27.vii.1970) // Y. Miyake // Paratype / *Rhomborhina* / *kurosawai* / MASUMOTO et K. SAKAI']].

**Current status.** Valid species.

**Genus *Thaumastopeus******Thaumastopeus chicheryi tenuigenius* Miyake & Yamaya**

*Thaumastopeus chicheryi tenuigenius* Miyake & Yamaya, 1995: 38.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: 1 ♂ 'N. Keningau / N. Borneo / 30. V. 1994 // Paratype: *Thaumastopeus* / *chicheryi tenuigenius* / Y. MIYAKE et YAMAYA, 1995'.

**Current status.** Valid species.

**Genus *Paratrichius******Paratrichius hatai* Miyake**

*Paratrichius hatai* Miyake, 1989: 41–42.



**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 4 exs.: [[‘Tanah Rata / MALAYA / 7. IV. 1972 (the date given in the original description is 7.IV.1978) / M. Hata // Paratype: / Paratrichius / hatai / Y. MIYAKE, 1989’]].

**Current status.** Valid species.

### *Paratrichius kyushuensis* Miyake

Figure 4H

*Paratrichius kyushuensis* Miyake, 1990: 30–32.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘MT. SOBO / BUNGO / 28. vii. 1954 / Y. MIYAKE // Holotype: / Paratrichius / kyushuensis / Y. MIYAKE, 1990’. (Fig. 4H)

**Paratypes.** 5 exs.: 1 ex. ‘(Kyushu) / Mt. Sobo / 24. VII. 1950 / Y. Miyake // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’. 1 ♂ ‘(Kyushu) / Mt. Sobo / 24. VII. 1952 / Y. Miyake // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’. 1 ex. ‘(Kyushu) / Mt. Ichi Fu Sa / 28 VII 1952 / Col. S. Kimoto // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’. 1 ex. 1 ♂ ‘(Kyushu) / Mt. Sobo / 24. VII. 1953 / K. MATSUDA // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’.

**Type condition.** The left metatarsus of the holotype is missing.

**Current status.** Valid species.

**Remark.** The date on the label of the holotype is 28.VII.1954 while that in the original description is 28.VII.1952.

In addition to the paratypes mentioned above, the following specimen labeled as paratype is not designated in the original description.: 1 ex. ‘⑦ // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’.

### Genus *Tibiotrichius*

#### *Tibiotrichius vietnamensis* Miyake

Figure 5A

*Tibiotrichius vietnamensis* Miyake, 1996: 44.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘M. ITO leg / Sapa=Chapa / N. Vietnam / 23–V–1995 // サパ= sapa [aedeagus mount] // Holotype: Tibiotrichius / vietnamensis Y. MIYAKE, 1996’. (Fig. 5A)

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.

**Subfamily Valginae****Genus *Charitovalgus******Charitovalgus banzai* Sawada**

Figure 5B

*Charitovalgus banzai* Sawada, 1941: 8–9.**Note.** The neotype is deposited in RIEB (ex coll. Y. Miyake):

**Neotype** (♂). ‘Hourng Shoei ken / near Liukuei, / Kao Hsung Hsien / VII. 1972 W. Chen leg // Holotype: Neotype / *Charitovalgus* / *banzai* SAWADA / Y. MIYAKE, 1993’. (Fig. 5B)

**Type condition.** The right and left metatarsi of the neotype are missing.

**Current status.** Valid species.

**Remark.** The neotype was designated by Miyake (1993).

**Genus *Dasyvalgus******Dasyvalgus annamensis* Miyake**

Figure 5C

*Dasyvalgus annamensis* Miyake, 1993a: 21–22.**Note.** The holotype and following paratype are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘4. 4 / 203 // Iluon Ma Thuot / Annam M. ITO // Holotype: *Dasyvalgus* / *Annamensis* / Y. MIYAKE, 1993’. (Fig. 5C)

**Paratype.** 1 ex.: 1 ♂ ‘Iluon Ma Thuot / Annam M. ITO // Paratype: *Dasyvalgus* / *annamensis* / Y. MIYAKE, 1993’.

**Current status.** Valid species.

**Remark.** The locality on the collecting data label of the holotype is ‘Iluon Ma Thuot’, but the locality given in the original description is ‘Ban Me Thuot’. However, the habitus of the holotype and the figure in the original description match. Probably, Miyake made a typographical error when writing the description.

***Dasyvalgus castaneodorsalis* Miyake**

Figure 5D

*Dasyvalgus castaneodorsalis* Miyake, 1993a: 24–25.**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘[Thailand] Pupin–Doi Phui / 19–IV–1985 / M. TAO leg. // Holotype: *Dasyvalgus* / *casraneodorsalis* / Y. MIYAKE, 1993’. (Fig. 5D)

**Paratypes.** 6 exs.: 2 ♂ [Thailand] Pupin-Doi-Phui / 19–IV–1985 / M. TAO leg. // Paratype: *Dasyvalgus / castaneodorsalis* / Y. MIYAKE, 1993'. 1 ♂ [Thailand] Pupin-Doi-Phui / 21–IV–1985 / M. TAO leg. // Paratype: *Dasyvalgus / castaneodorsalis* / Y. MIYAKE, 1993'. 2 ♂ [Thailand] Pupin / 21–IV–1985 / M. TAO // Paratype: *Dasyvalgus / castaneodorsalis* / Y. MIYAKE, 1993'. 1 ♂ [Thailand] Doi Suthep / 10–V–1985 / M. TAO leg. // Paratype: *Dasyvalgus / castaneodorsalis* / Y. MIYAKE, 1993'.

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.

### *Dasyvalgus decamaculatus* Miyake

Figure 5E

*Dasyvalgus decamaculatus* Miyake, 1993a: 22–23.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). 'Iluon Ma Thuot / Annam M. ITO // Holotype: / *Dasyvalgus / decamaculatus* / Y. MIYAKE, 1993'. (Fig. 5E)

**Paratypes.** 2 exs.: 1 ex. 'Near Chang Mai / N. Thailand / 7–V–1994 / K. KUME leg. // Paratype: *Dasyvalgus / decamaculatus* / Y. MIYAKE, 1993'. 1 ex. 'Paratype: *Dasyvalgus / decamaculatus* / Y. MIYAKE, 1993'.

**Type condition.** The right and left metatarsus are missing.

**Current status.** Valid species.

**Remark.** The locality on the collecting data label of the holotype is 'Iluon Ma Thuot', but the locality given in the original description is 'Ban Me Thuot'. However, the habitus of the holotype and the figure in the original description match. Probably, Miyake caused a typographical error when writing the description.

### *Dasyvalgus flavicauda* Miyake, Yamaguchi et Aoki

Figure 5F

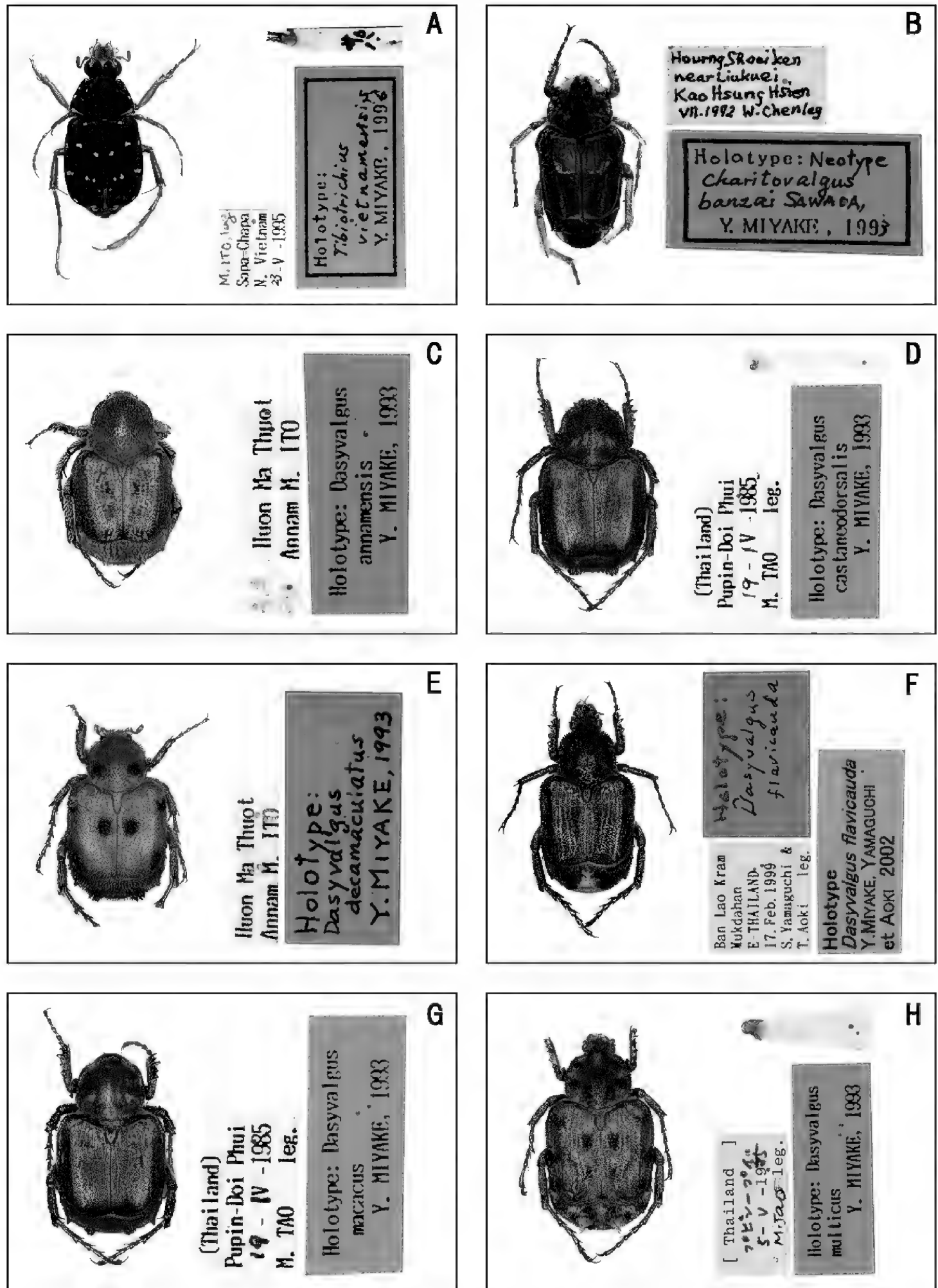
*Dasyvalgus flavicauda* Miyake, Yamaguchi, Aoki et Akiyama, 2002: 65–66.

**Note.** The holotype and following paratype are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). 'Ban Lao Kram / Mukdahan / E-THAILAND / 17. Feb. 1999 / S. Yamaguchi and / T. Aoki leg. // Holotype: / *Dasyvalgus / flavicauda* // Holotype / *Dasyvalgus flavicauda* / Y. MIYAKE, YAMAGUCHI / et AOKI 2002'. (Fig. 5F)

**Paratype.** 1 ex.: 1 ♂ 'Phu Huai Sing / Mukdahan / E-THAILAND / 19. Feb. 1999 / S. Yamaguchi and / T. Aoki leg. // Paratype / *Dasyvalgus flavicauda* / Y. MIYAKE, YAMAGUCHI / et AOKI 2002'.

**Current status.** Valid species.



**Figure 5.** Habitus of holotype specimens. **A** *Tibiotrichius vietnamensis* Miyake **B** *Charitovalgus banzai* Sawada **C** *Dasyvalgus annamensis* Miyake **D** *Dasyvalgus castaneodorsalis* Miyake **E** *Dasyvalgus decamaculatus* Miyake **F** *Dasyvalgus flavicauda* Miyake **G** *Dasyvalgus macacus* Miyake **H** *Dasyvalgus multicus* Miyake.

***Dasyvalgus macacus* Miyake**

Figure 5G

*Dasyvalgus macacus* Miyake, 1993a: 24.**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):**Holotype** (♂). [Thailand] Pupin-Doi Phui / 19–IV–1985 / M. TAO leg. // Holotype: *Dasyvalgus* / *macacus* / Y. MIYSKE, 1993'. (Fig. 5G)**Paratypes.** 4 exs.: 1 ♂ [Thailand] Pupin-Doi Phui / 1–V–1985 / M. TAO leg. // Paratype: *Dasyvalgus* / *macacus* / Y. MIYAKE, 1993'. 1 ♂ [Thailand] Pupin-Doi Phui / 5–V–1985 / M. TAO leg. // Paratype: *Dasyvalgus* / *macacus* / Y. MIYAKE, 1993'. 1 ♂ [Thailand] Pupin-Doi Phui / 12–V–1985 / M. TAO leg. // Paratype: *Dasyvalgus* / *macacus* / Y. MIYAKE, 1993'. 1 ♂ [Thailand] Pupin-Doi Phui / 21–V–1985 / M. TAO leg. // Paratype: *Dasyvalgus* / *macacus* / Y. MIYAKE, 1993'.**Current status.** Valid species.**Remark.** The habitus photograph in the original description does not refer to the holotype.***Dasyvalgus makiharai* Miyake***Dasyvalgus makiharai* Miyake, 1985: 11–12.**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):**Paratype.** 1 ex.: 'MEIFENG / FORMOSA / 3–VII. 74 / T, OCHI // Paratype: / *Dasyvalgus* / *makiharai* Y. MIYAKE / (1985)'.**Current status.** Valid species.**Remark.** In addition to the paratype mentioned above, the following specimens labeled as paratype are not designated in the original description: 1 ex. '松崗 = song-gang / 27~29. VII 1968 / K. YAMAMOTO // Paratype: *Dasyvalgus* / *makiharai* / Y. MIYAKE, 1985'. 1 ♂ 'SUNG KANG / FORMOSA / 30–VI, 74 / T. OCHI // Paratype: / *Dasyvalgus* / *makiharai* Y. MIYAKE / (1985)'.***Dasyvalgus minahasanus* Miyake***Dasyvalgus minahasanus* Miyake, 1989b: 42–43.**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):**Paratypes.** 78 exs.: 75 exs. 'Tondano / N. Sulawesi / 10–IV–1989 / Y. Miyake leg. // Paratype: / *Dasyvalgus* / *minahasanus* / Y. MIYAKE, 1989'. 3 exs. 'Tondano / N. Sulawesi / 9–IV–1989 / Y. Miyake leg. // Paratype: / *Dasyvalgus* / *minahasanus* / Y. MIYAKE, 1989'.

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimen labeled as paratypes is not designated in the original description: 1 ex. 'Tondano / N. Sulawesi / 11-IV-1989 / Y. Miyake leg. // Paratype: / *Dasyvalgus* / minahasanus / Y. MIYAKE, 1989'.

***Dasyvalgus multicus* Miyake**

Figure 5H

*Dasyvalgus multicus* Miyake, 1993a: 25–26.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). '[ Thailand ] / プピン-プイ= pupin-pui / 5-V-1985 / M. Tao leg. // Holotype: *Dasyvalgus* / multicus / Y. MIYAKE, 1993'. (Fig. 5H)

**Type condition.** The aedeagus of the holotype is pinned separately. The right and left protarsus are missing.

**Current status.** Valid species.

***Dasyvalgus nudis* Miyake**

Figure 6A

*Dasyvalgus nudis* Miyake, 1994: 153.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

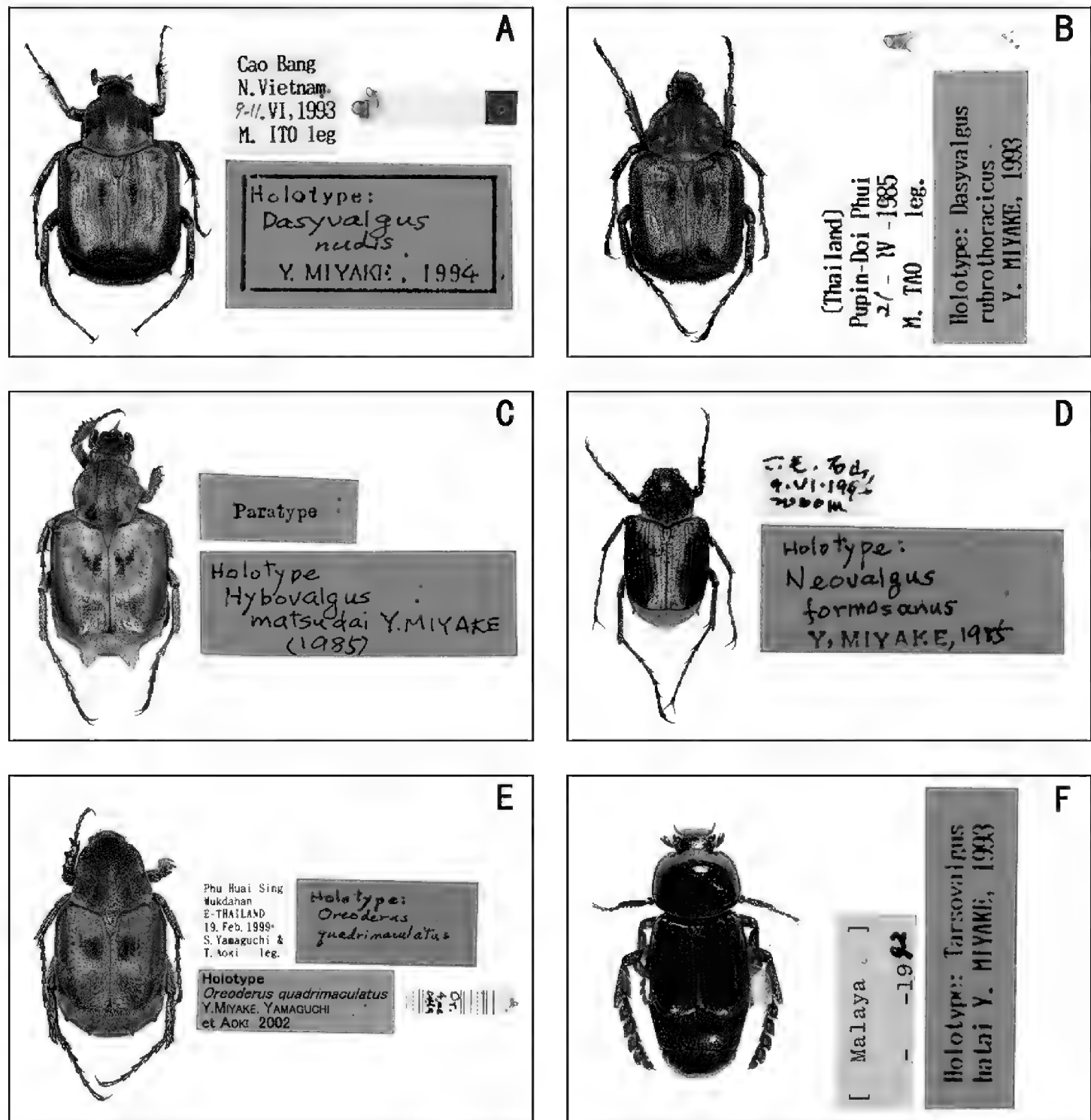
**Holotype** (♂). 'Cao Bang / N. Vietnam / 9–11. VI, 1993 / M. ITO leg // Holotype: *Dasyvalgus* / nudis / Y. MIYAKE, 1994'. (Fig. 6A)

**Paratypes.** 9 exs.: 3 ♂ 'Cao Bang / N. Vietnam / 8–10 VI, 1993 / M. ITO leg. // Paratype: / *Dasyvalgus* / nudis / Y. MIYAKE, 1994'. 3 ♂ 'Cao Bang / N. Vietnam / 10. VI, 1993 / M. ITO leg. // Paratype: / *Dasyvalgus* / nudis / Y. MIYAKE, 1994'. [[2 ♂ 'Cao Bang / N. Vietnam / 9–11. VI, 1993 (real date is 8–10. VI. 1993) / M. ITO leg. // Paratype: / *Dasyvalgus* / nudis / Y. MIYAKE, 1994']]. [[1 ex. 'Cao Bang / N. Vietnam / 11. VI, 1993 (real date is 8–10. VI. 1993) / M. ITO leg. // Paratype: / *Dasyvalgus* / nudis / Y. MIYAKE, 1994']]].

**Type condition.** The aedeagus of the holotype is pinned separately. The right antenna is missing.

**Current status.** Valid species.

**Remark.** The date on the collecting data label of the holotype is 9–11,VI,1993, but the collecting date quoted in the original description is 8–10,VI,1993. However, the habitus of the holotype and the figure in the original description match. Probably, Miyake caused a typographical error when writing the description.



**Figure 6.** Habitus of holotype specimens. **A** *Dasyvalgus nudis* Miyake **B** *Dasyvalgus rubrothoracicus* Miyake **C** *Hybovalgus matsudai* Miyake **D** *Neovalgus formosanus* Miyake **E** *Oreoderus quadrimaculatus* Miyake **F** *Tarsovalgus hatai* Miyake.

### *Dasyvalgus rubrothoracicus* Miyake

Figure 6B

*Dasyvalgus rubrothoracicus* Miyake, 1993a: 23–24.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). [Thailand] Pupin–Doi Phui / 21–IV–1985 / M. TAO leg. // Holotype: *Dasyvalgus* / *rubrothoracicus* / Y. MIYAKE, 1993'. (Fig. 6B)

**Paratypes.** 11 exs.: 1 ex. 'Doi Sutehp / Thailand / 28–IV–1985 / M Tao leg. // TDvA // Paratype: *Dasyvalgus* / *rubrothoracicus* / Y. MIYAKE, 1993'. 1 ♂ [Thailand] Pupin-Doi-Phui / 1–V–1985 / M. TAO leg. // Paratype: *Dasyvalgus* / *rubrothoracicus*



/ Y. MIYAKE, 1993'. 1 ♂ ['Thailand] Pupin-Doi-Phui / 1-V-1985 / M. TAO leg. // TDvA // Paratype: *Dasyvalgus / rubrothoracicus* / Y. MIYAKE, 1993'. 1 ♂ ['Thailand] Pupin-Doi-Phui / 5-V-1985 / M. TAO leg. // TDvA // TDvA // Paratype: *Dasyvalgus / rubrothoracicus* / Y. MIYAKE, 1993'. 1 ♂ ['Thailand] Pupin-Doi-Phui / 11-V-1985 / M. TAO leg. // Paratype: *Dasyvalgus / rubrothoracicus* / Y. MIYAKE, 1993'. [[1 ♂ ['Thailand] Pupin-Doi-Phui / 17-V-1985 (the date given in the original description is 17-IV-1985) / M. TAO leg. // Paratype: *Dasyvalgus / rubrothoracicus* / Y. MIYAKE, 1993']]. [[1 ♂ ['Thailand] Pupin-Doi-Phui / 21-V-1985 (the date given in the original description is 21-IV-1985) / M. TAO leg. // TDvA // Paratype: *Dasyvalgus / rubrothoracicus* / Y. MIYAKE, 1993']]. [[1 ♂ ['Thailand] Pupin-Doi-Phui / 21-V-1985 (the date given in the original description is 21-IV-1985) / M. TAO leg. // TDvA // Paratype: *Dasyvalgus / rubrothoracicus* / Y. MIYAKE, 1993']]. [[1 ♂ ['Thailand] Pupin-Doi-Phui / 23-V-1985 (the date given in the original description is 23-IV-1985) / M. TAO leg. // Paratype: *Dasyvalgus / rubrothoracicus* / Y. MIYAKE, 1993']]. [[2 ♂ ['Thailand] Pupin-Doi-Phui / 28-V-1985 (the date given in the original description is 28-IV-1985) / M. TAO leg. // TDvA // Paratype: *Dasyvalgus / rubrothoracicus* / Y. MIYAKE, 1993']]].

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.

**Remark.** The date on the collecting data label of the holotype is 21-IV-1985, but the collecting date quoted in the original description is 5-V-1985. However, the habitus of the holotype and the figure in the original description match. Probably, Miyake caused a typographical error when writing the description.

### *Dasyvalgus similis* Miyake

*Dasyvalgus similis* Miyake, 1985: 8-9.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 3 exs.: 1 ♂ '蓬来= hôrai / 20, 21 VIII 1968 / H. MAKIHARA // Paratype'. 1 ♂ 'FUNCHIIFO / FORMOSA / 1. VI. 1970 / Y. KIYOYAMA // Paratype // Paratype / *Dasyvalgus / similis*, Y. MIYAKE / 1985'. 1 ♂ 'FUNCHIIFO / FORMOSA / 1. VI. 1970 / Y. KIYOYAMA // Paratype'.

**Current status.** Senior objective synonym of *Dasyvalgus taiwanus* Miyake, 1991. Miyake in Miyake et al. (1991) proposed *Dasyvalgus taiwanus* as a replacement name for *Dasyvalgus similis* Miyake, 1985, a junior primary homonym of *Dasyvalgus similis* Moser, 1908.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. 'LIUKUEI / FORMOSA / 3. X. 1970 / Y. KIYOYAMA // 16 // Paratype // Paratype / *Dasyvalgus / similis* Y. MIYAKE, 1985'. 1 ex. 'NANSHANCHI / FORMOSA / 27. VI. 1971 / Y. MAEDA // Paratype // Paratype / *Dasyvalgus / similis* Y. MIYAKE, 1985'. 1 ex. '紅水坑= hongshuikeng / Liukuei / 11. V. 1978 / Chen. W. // Paratype'. 1 ♂ '紅水坑= hongshuikeng / Liukuei / 11. V. 1978 / Chen. W. // Paratype'. 1 ex. '紅水坑= hongshu-

ikeng / Liukuei / 11. V. 1978 / W. Chen // Paratype // Paratype / *Dasyvalgus* / similis Y. MIYAKE, 1985'. 1 ex. 'Paratype'.

### *Dasyvalgus wadai* Miyake

*Dasyvalgus wadai* Miyake, 1985: 9–10.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: 1 ♂ 'Paratype / *Dasyvalgus* / wadai Y. MIYAKE, 1985'.

**Current status.** Valid species.

**Remark.** This paratype has no collecting data label.

### Genus *Hybovalgus*

#### *Hybovalgus matsudai* Miyake

Figure 6C

*Hybovalgus matsudai* Miyake, 1985: 6.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). 'Paratype // Holotype / *Hybovalgus* / matsudai Y. MIYAKE / (1985)'.

**Type condition.** The right protarsus is missing.

**Current status.** Valid species.

**Remark.** There is no data label attached to the holotype, but the habitus of the holotype matches the figure in the original description. If confidence is placed in the pinned holotype label and the habitus, the above holotype specimen is the true holotype.

### Genus *Neovalgus*

#### *Neovalgus formosanus* Miyake

Figure 6D

*Neovalgus formosanus* Miyake, 1985: 3.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). '六龜= liugui. 石山= shi shan / 9. VI. 1976 / 2000m // Holotype: / *Neovalgus* / formosanus / Y, MIYAKE, 1985'. (Fig. 6D)

**Paratypes.** 2 exs.: 1 ex. '[ Taiwan ] / Baibara, mt. Puli / –V–1965 // Paratype: *Neovalgus* / formosanus Y. MIYAKE, 1985'. 1 ex. '[ Taiwan ] / Liukuei / 16–V–1978 // PARATYPE / *Neovalgus* / formosanus / Y. MIYAKE, 1985'.

**Current status.** Valid species.

**Remark.** The date on the collecting label of the holotype is 9.VI.1976, but the collecting date quoted in the original description is 16.V.1978. However, the habitus of the holotype matches the figure in the original description. Probably, Miyake caused a typographical error when writing the description.

In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 3 exs. '[ Taiwan ] / Baibara, mt. Puli / -V-1965 // PARATYPE / Neovalgus / formosanus / Y. MIYAKE, 1985'. 1 ex. 'Formosa / Wushe / V. 1965 / T. Shiroz / Paratype: Neovalgus / formosanus / Y. MIYAKE, 1985'. 1 ex. '六 龜= liugui, 石山= shi shan / 2000 m / 9-VI-1976 / Paratype / Neovalgus / formosanus / Y. MIYAKE, 1985'. 1 ex. 'Paratype: / Neovalgus / formosanus / Y. MIYAKE, 1985'.

### Genus *Oreoderus*

#### *Oreoderus quadrimaculatus* Miyake, Yamaguchi et Aoki

Figure 6E

*Oreoderus quadrimaculatus* Miyake, Yamaguchi, Aoki et Akiyama, 2002: 64–65.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). 'Phu Huai Sing / Mukdahan / E-THAILAND / 19. Feb. 1999 / S. Yamahuchi and T. Aoki leg. // Holotype: / Oreoderus / quadrimaculatus // Or. 4ml / Coll. // Holotype / Oreoderus quadrimaculatus / Y. MIYAKE, YAMAGUCHI / et AOKI 2002'. (Fig. 6E)

**Type condition.** The aedeagus of the holotype is pinned separately. The right pro-tarsus is missing.

**Current status.** Valid species.

### Genus *Tarsovalgus*

#### *Tarsovalgus hatai* Miyake

Figure 6F

*Tarsovalgus hatai* Miyake, 1993b: 32–33.

**Note.** The holotype and following paratype are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). '[ Malaya ] / - -1992 // Holotype: Tarsovalgus / hatai Y. MIYAKE, 1993'. (Fig. 6F)

**Paratype.** 1 ex.: '[ Malaya ] / - -1992 // Paratype: / Tarsovalgus / hatai / Y. MIYAKE, 1993'.

**Current status.** Valid species.

**Family Trogidae****Genus *Trox******Trox kyotensis* Ochi & Kawahara**

*Trox kyotensis* Ochi & Kawahara, 2000: 53–56.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘YAMAZAKI- / CHO, KYOTO. / 5–IV, 1999 / M. KAWAHARA // PARATYPE / *Trox* / *kyotensis* / OCHI and KAWAHARA / 2000’.

**Current status.** *Trox* (*Niditrox*) *kyotensis* Ochi et Kawahara, 2000, see Kalz (2019).

***Trox sabulosus fujiokai* Ochi**

*Trox sabulosus fujiokai* Ochi, 2000: 43–44.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘Yukyuzan-Park, Nagaoka / Niigata Pref., Japan / 28. V. 1997 / Y and M. Kawahara leg // PARATYPE / *Trox* / *Sabulosus* / Subsp. *fujiokai* / OCHI, 2000’.

**Current status.** Valid species.

***Trox setifer horiguchii* Ochi & Kawahara**

*Trox setifer horiguchii* Ochi & Kawahara, 2002: 54–55.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: 1♂ ‘MEBORO-DAM / KAMIAGATA. T. / IS. TSUSHIMA / NAGASAKI. J. P / 25–V. 2002 / Y and M. KAWAHARA // 対県= tsu-ken上県町= kamiagata-chô / 目保呂ダム= meborodamu / 25. V. 2002 / Y and M. Kawahara // ♂ // PARATYPE / *Trox* / *setifer* / subsp. *horiguchii* / OCHI and KAWAHARA / 2002’.

**Current status.** *Trox horiguchii* Ochi and Kawahara, 2002, see Pittino (2006).

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